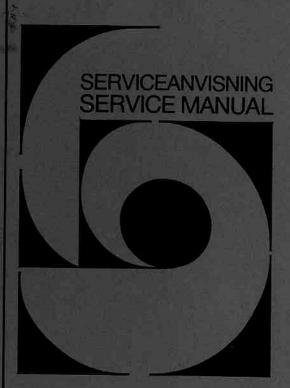


Beomaster 6500

Type 2336, 2337, 2338, 2339, 2340

**Master Control Panel** 

Type 1551



BANG & OLUFSEN DK - 7600 STRUER DENMARK

TELEPHONE 97851122\*
CABLE ADRESS BANGOLUF
TELEFAX 97853912

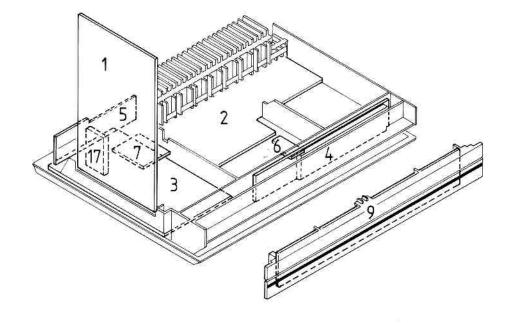
3538751 09-89

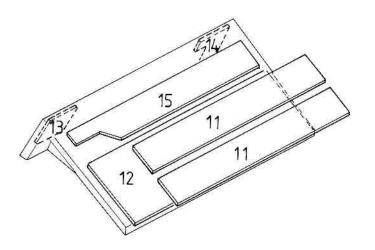
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NDHOLD	CUNTENTS	
foduloversigt	1 Survey of modules	
ekniske specifikationer	1 Technical specifications	
liagrammer	2 Circuit diagrams	
lektrisk stykliste	3 List of electrical parts	
fekanisk stykliste	4 List of mechanical parts	
ontrol, justeringer		
dskillelse		
eparationstips	7 Repair hints	
solationstest	8 Insulation test	
lutaforavning	9 Final test	

4	-4	
1		

1	HF diagr. A page 2-2	9	Display diagr. C page 2-5
2	Output and Power Supply diagr. B page 2-4	11	Master Control, keyboard diagr. E page 2-6
3	Preamplifier diagr. B page 2-4	12	Master Control, Mircocomputer diagr. E page 2-6
4	Microcomputer diagr. C page 2-5	13	Master Control, IR-left diagr. E page 2-6
5	Speaker sockets diagr. B page 2-4	14	Master Control, IR-right diagr. E page 2-6
6	Fan regulation diagr. B page 2-4	15	Master Control, Display diagr. E page 2-6
7	Relay diagr. B page 2-4	17	Tuner – FM diagr. ???





ECHNICAL SPECIFICATIONS ,	
Reomaster 6500	Type 2336, 2337, 2338, 2339, 2340
Seomaster 6000	Master Control Panel 6500, two-way
	Beolink 7000, two-way
	Beolink 1000, one-way
ong-term max. output power IEC	2 x 110 watts/8 ohms
otal harmonic distortion IHF	<0,09%/50 watts 20-20,000 Hz
EASTER AND	1.5 db/8 ohms
Oynamic headroom ntermodulation IHF	<0.1%
ntermodulation Inc	50174
nput sensitivity/impedance:	
Phono	30 mV/100 kohms
Tape - AUX	30 mV/100 kohms
DD player	20 mV/100 kohms
ine	25 mV/100 kohms
Response vs frequency:	
Phono	20-20,000 Hz ±1.5 dB
Tape	20-20,000 Hz ±1.5 dB
Nideband damping factor	50
Signal-to-noise ratio:	>78 dB
Phono A-weighted, 1 W IHF	39.7708 (39.24)
Tape A-weighted, 1 W IHF	>80 dB
Tape A-weighted, 50 W output	>97 dB
Channel separation 10,000 Hz	>50 dB
Output:	
Гаре	500 mV/1 kohms
Line	500 mV/1 kohms
External power amplifier	1 V/1 kohms
Headphones	Max. 10 V/470 ohms
Bass control at 40 Hz	±10 dB
Treble control at 12,500 Hz	±8 dB
FM tuner section:	
FM range	76-90 MHz (Type 2339)
	87.5-108 MHz (Type 2336, 2337, 2338, 2340
FM aerial impedance	75 and 240 ohms
Usable sensitivity mono	14 dBf-1.4 μV/75 ohms
Usable sensitivity stereo	19 dBf-2.5 μVV/75 ohms
50 dB quiting sensitivity mono	19 dBf-2.5 μV/75 ohms
50 dB quiting sensitivity stereo	40 dBf-28 μV/75 ohms
Signal-to-noise ratio 65 dBf mono	75 dB
Signal-to-noise ratio 65 dBf stereo	70 dB
Frequency response	20-15,000 Hz ±1 db
Distortion at 65 dBf mono	0.16%
Distortion at 65 dBf stereo	0.2%
Intermodulation mono	0.1%
Intermodulation stereo	0.1%
Capture ratio	1.7 dB
Adjacent channel selectivity	10 dB
Alternate channel selectivity	70 dB
100 C	100 dB
Spurious response	80 dB
Image response ratio	OV GB

AM suppression	57 dB
Stereo channel separation	45 dB
Subcarrier product rejection	70 dB
AM tuner section:	1
LW range	150-350 kHz (Type 2336, 2337)
MW range	520-1610 kHz (Type 2336, 2337, 2338, 2339, 2340)
LW sensitivity 20 dB S/N ratio	80 μV
MW sensitivity 20 dB S/N ratio	60 µV
Connections:	
Audio Link	CD, Tape 1, Tape 2, PH (RIAA in Beogram 6500)
Audio Aux Link	Beovision, 7 pin
Power Link	Beolab speakers, 2 sockets 8-pin
Speaker Link	Beovox speakers, 2 sockets 4-pin
Master Control Link	2 sockets 3-pin
Power supply	Type 2336 220 V
	Type 2337 240 V
	Type 2338 120 V
	Type 2339 100 V
	Type 2340 240 V
Power frequency	50-60 Hz
Power consumption	Max. 225 watts
Dimensions W x H x D	42 x 7.5 x 32.5
Weight	8.5 kg
<u> </u>	18.8 lbs
Installationskit:	
RIAA amplifier	8001245
6.41-4.4-4.4-4.4-4.4-4.4-4.4-4.4-4.4-4.4-	
Subject to change without notice	
Tilslutning af nettransformer/ Connection of Mains Transformer/ 220V	130V
240	120V Thermal Protector 8013363 for type 2338
• IIIIIIIIII	

### Options:

### En Beomaster i et Beolinksystem

Options eller situationer beskriver hvordan både audio- og videoprodukterne i et Beolinksystem skal programmeres i den valgte stilling.

### Option 1 (Situation 1):

Et audio- og et videosystem placeres i samme rum, så signalerne fra Beolink terminalen kan opfanges af begge systemer samtidigt.

### Option 2:

Audio- og videosystemet er placeret i hver sit rum, så signalerne fra Beolink terminalen kun kan opfanges af ét system ad gangen.

Beomaster 6500 i Master Control Link 2-systemet:

### Option 3:

Anvendes når der er to audiokilder i samme rum (f.eks.: en MCL2-enhed og en Beomaster 6500).

### Option 4:

Anvendes når der er to audio- og en videokilde i samme rum (f.eks.: MCL2, Beomaster og Beovision).

### Option 0:

Sætter IR-føler ud af funktion, hvilket kan udnyttes f.eks. i butiksvinduer eller ved udstillinger. Der kan dog stadig vælges ny option med Beolink terminalen.

### Programmering:

Options programmeres med Beolink terminalen, med Beomaster 6500 i standby:

Tast:

SOUND, Option nr. STORE

Display viser:

Option nr.

Beomaster 6500 er fra fabrikken programmeret til option 1.

### Stikdåserne Line in/out og AUX/TV:

Line in/out anvendes ved tilslutning af en equalizer. Husk kortslutningsprop (bestillingsnr. 7220265) når equalizer ikke er tilsluttet.

AUX/TV anvendes ved tilslutning af et Beolinkkompatibelt fjernsyn eller f.eks. Bang & Olufsen båndoptager.

### Options:

### A Beomaster in a Beolink System

Options or situations describe how both the audio and video products in a Beolink system are programmed in the chosen setting.

### Option 1 (Situation 1):

An audio and a video system are placed in the same room so the signals from Beolink terminal can be received by both systems at the same time.

### Option 2:

The audio and video systems are placed in separate rooms so the signals from Beolink terminal can only be received by one system at a time.

Beomaster 6500 in the Master Control Link 2 system:

### Option 3:

Is used when there are two audio sources in the same room (e.g. an MCL2 unit and a Beomaster 6500).

### Option 4:

Is used when there are two audio sources and one video source in the same room (e.g. MCL 2, Beomaster and Beovision).

### Option 0:

Puts the IR sensor out of operation; this can be used in shop windows or at exhibitions for example. However, new options can still be selected with Beolink terminalen.

### Programming:

Options are programmed with Beolink terminal, with Beomaster 6500 in standby:

Key:

SOUND, Option no. STORE

Display shows Option no.

Beomaster 6500 is programmed at the factory to

### The Line in/out and AUX/TV sockets:

Line in/out is used for connecting an equalizer. Remember short-circuiting fuse (order no. 7220265) when the equalizer is not connected. AUX/TV is used for connecting a Beolink-compatible television or e.g. Bang & Olufsen cassette recorder.

### Bang & Olufsen

### DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102\*.

Positionsnummeret for udgangsforstærkerens venstre kanal er angivet i paranteser i diagrammet for højre kanal.

### Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og kompo-

På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

### Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være ST.BY. = »low« i stand-by-stilling eller ST.BY. = »high« i stand-by-stilling.

### Ledningsforbindelser

Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

### EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102\*.

The position number for the left channel of the output amplifier are stated in brackets in the diagram for right channel.

### Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the component side.

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

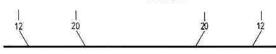
### Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g.  $\overline{ST.BY}$  = low in the stand-by mode or ST.BY. = high in the stand-by mode.

### Wiring Connections

The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

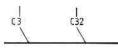
INTERNAL CONNECTION ON ONE DIAGRAM PAGE



Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser, i hvilken retning, den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE

DIAGRAM A

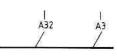


tal samt et bogstav for det diagram, forbindelsen går

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE

DIAGRAM C



Forbindelsen til en anden diagramside angives med et A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

### Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

### Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON. = 7 connections).

### SYMBOL FOR SIKKERHEDSKOMPONENTER



Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

### **MÅLEBETINGELSER**

Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsimpedans på 10 Mohm.

DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.

Alle oscillogrammer og AC-spændinger er målt i forhold til stel med et oscilloskop eller et voltmeter med en indgangsmodstand på 1 Mohm.

AC-spændingerne er opgivet i millivolt (mV), f.eks. 660 mV.

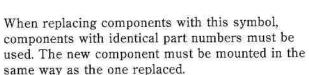
### Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

### Example:

"7 CON.". This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON. = 7 connections).

### SYMBOL OF SAFETY COMPONENTS



### MEASURING CONDITIONS

All DC voltages have been measured in relation to ground with a voltmeter with an input impedance of

The DC voltages are stated in volts (V), e.g. 0.7 V.

All oscillograms and AC voltages have been measured in relation to ground with an oscilloscope or a voltmeter with an input resistance of 1 Mohm.

AC voltages are stated in millivolts (mV), e.g. 660 mV.

Type 2338 Explanation of the fuse symbols used in the set. Explanation de symboles du fusible utilisés dans l'appareil

Replace with same type 5 ampere 250 volts slow acting fuse. Remplacer par un fusible de meme type retardè et de 5 amperes 250 volts.

### ADVARSEL LITHIUMBATTERI - EKSPLOSIONSFARE UDSKIFTNING MA KUN FORETAGES AF EN SAGKYNDIG OG SOM BESKREVET I SERVICE MANUAL WARNING LITHIUM BATTERY - RISK OF EXPLOSION

TO BE REPLACED BY QUALIFIED SERVICEMAN DNLY AND AS DESCRIBED IN THE SERVICE MANUAL

### ADVARSEL VED LITHIUM-BATTERIER

Bang & Olufsen

Kortslutning og overopladning af visse typer lithium-batterier kan medføre en voldsom eksplosion.

Ved udskiftning af lithium-batteriet i dette apparat må der kun anvendes et batteri af det fabrikat og den type, der er angivet i denne serviceanvisning (se side 4-5).

Batteriet skal monteres nøjagtigt som det originale

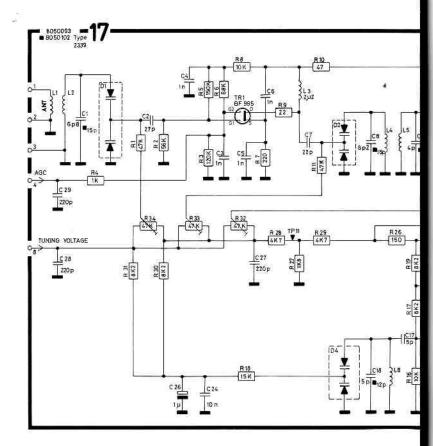
### WARNING LITHIUM BATTERIES

Short-circuit and overcharging of some types of lithium batteries may result in a violent explosion.

When replacing the lithium battery in this set, use only batteries of the make and type mentioned in this service manual (see page 4-5).

Fit the battery exactly like the old one.

### FM TUNER



ndicated by

ltage in e diagram is).

mbol, must be nted in the

relation to npedance of

e.g. 0.7 V.

oeen oscilloscope of 1 Mohm.

), e.g.

ADVARSEL!

LITHIUMBATTERI — EKSPLOSIONSFARE

UDSKIFTNING MA KUN FORETAGES AF EN SAGKYNDIG

OG SOM BESKREVET I SERVICE MANUAL

WARNING!

LITHIUM BATTERY — RISK OF EXPLOSION

TO BE REPLACED BY QUALIFIED SERVICEMAN ONLY

AND AS DESCRIBED IN THE SERVICE MANUAL

### ADVARSEL VED LITHIUM-BATTERIER

Kortslutning og overopladning af visse typer lithium-batterier kan medføre en voldsom eksplosion.

Ved udskiftning af lithium-batteriet i dette apparat må der kun anvendes et batteri af det fabrikat og den type, der er angivet i denne serviceanvisning (se side 4-5).

Batteriet skal monteres nøjagtigt som det originale batteri

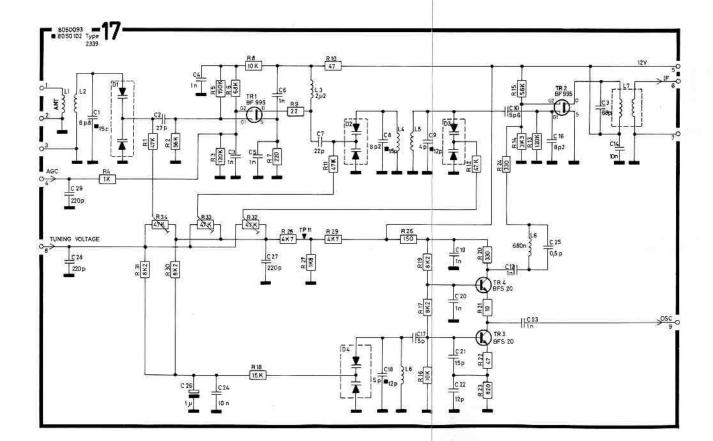
### WARNING LITHIUM BATTERIES

Short-circuit and overcharging of some types of lithium batteries may result in a violent explosion.

When replacing the lithium battery in this set, use only batteries of the make and type mentioned in this service manual (see page 4-5).

Fit the battery exactly like the old one.

### FM TUNER



The FM TUNER is a single unit.
With failure in this unit we recommend replacing the Whole unit.
However the part nos. of semi-conductors are in the lidt of semi-conductors.

PLUG SURVEY

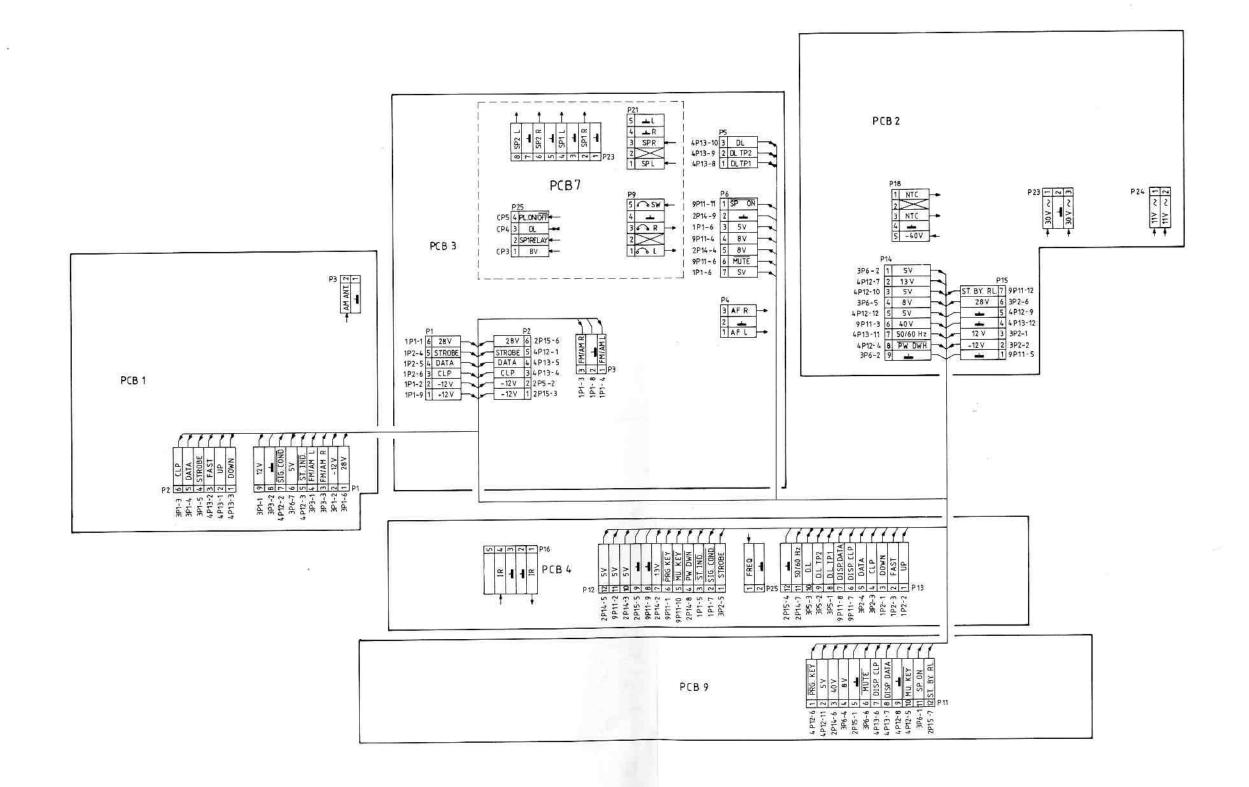
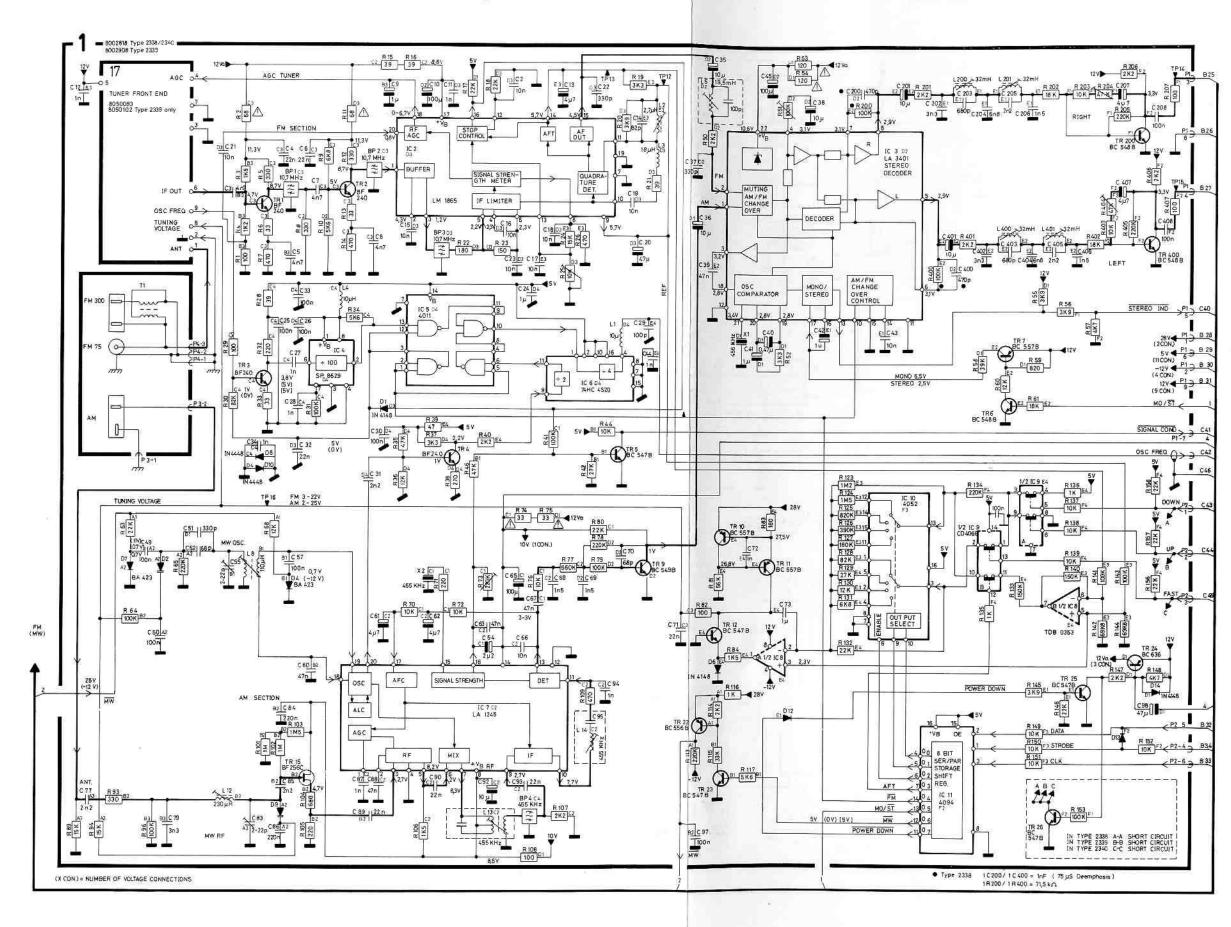


DIAGRAM A AM-FM, TUNER, IF, STEREO DECODER (Type 2338, 2339, 2340)



### DIAGRAM A AM-FM, TUNER, IF, STEREO DECODER (Type 2336, 2337)

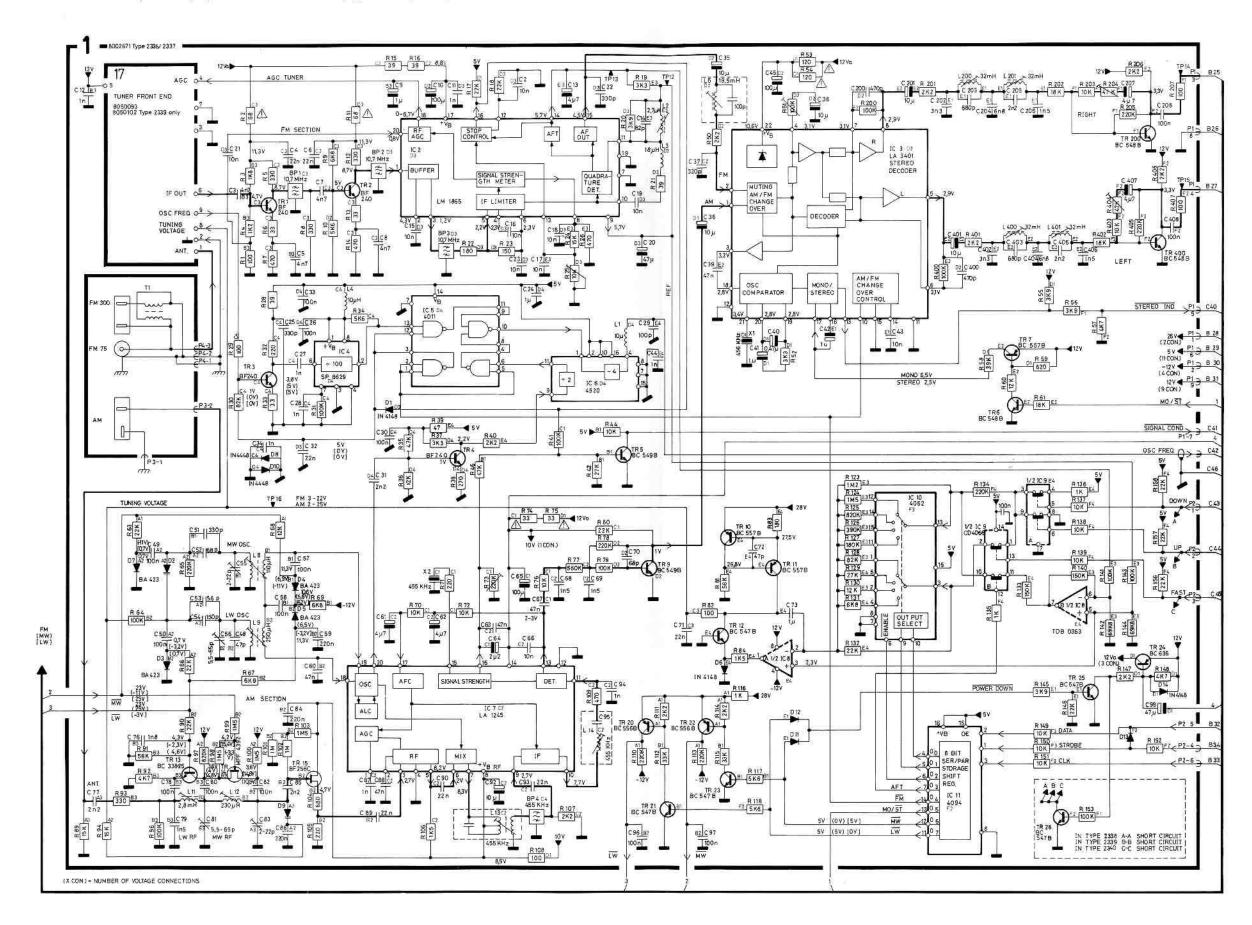
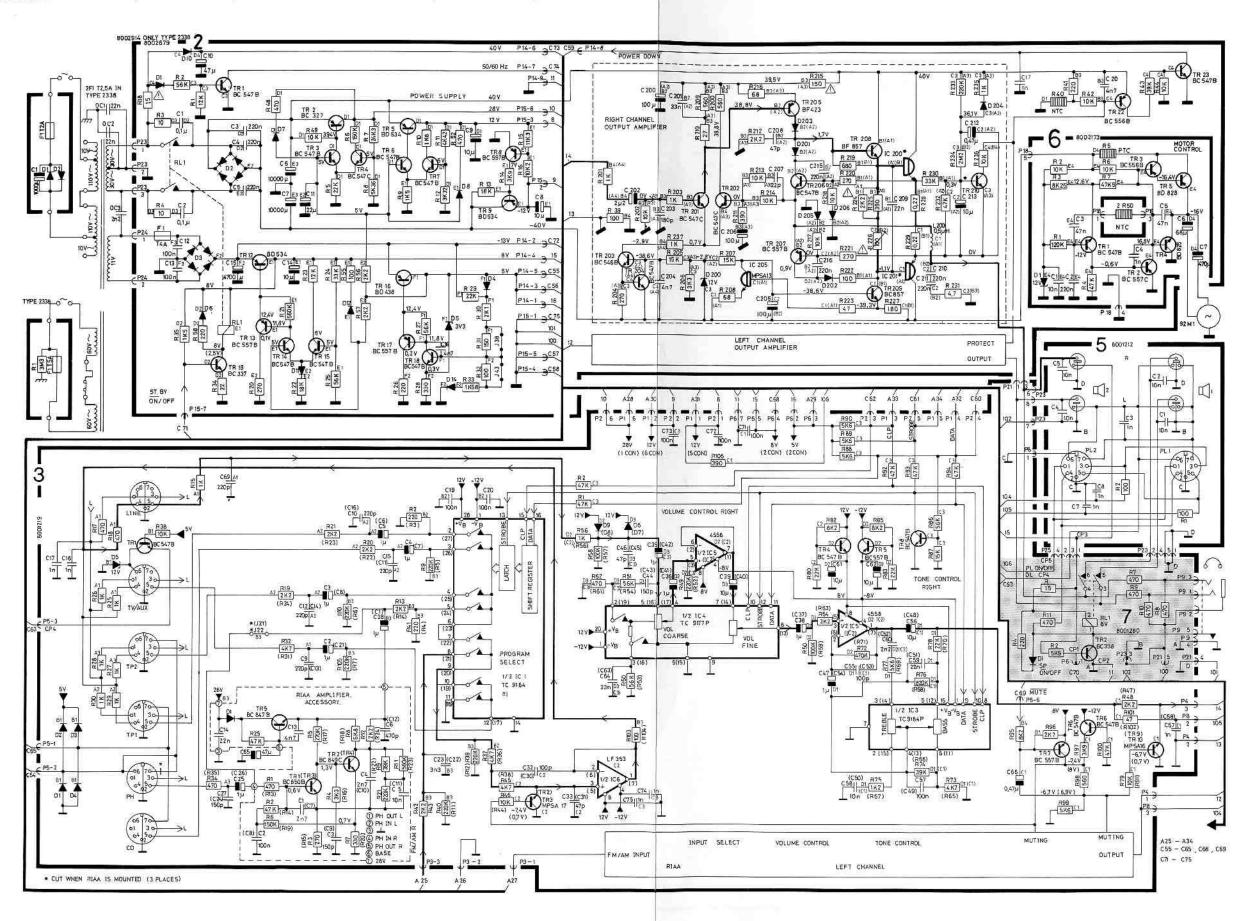
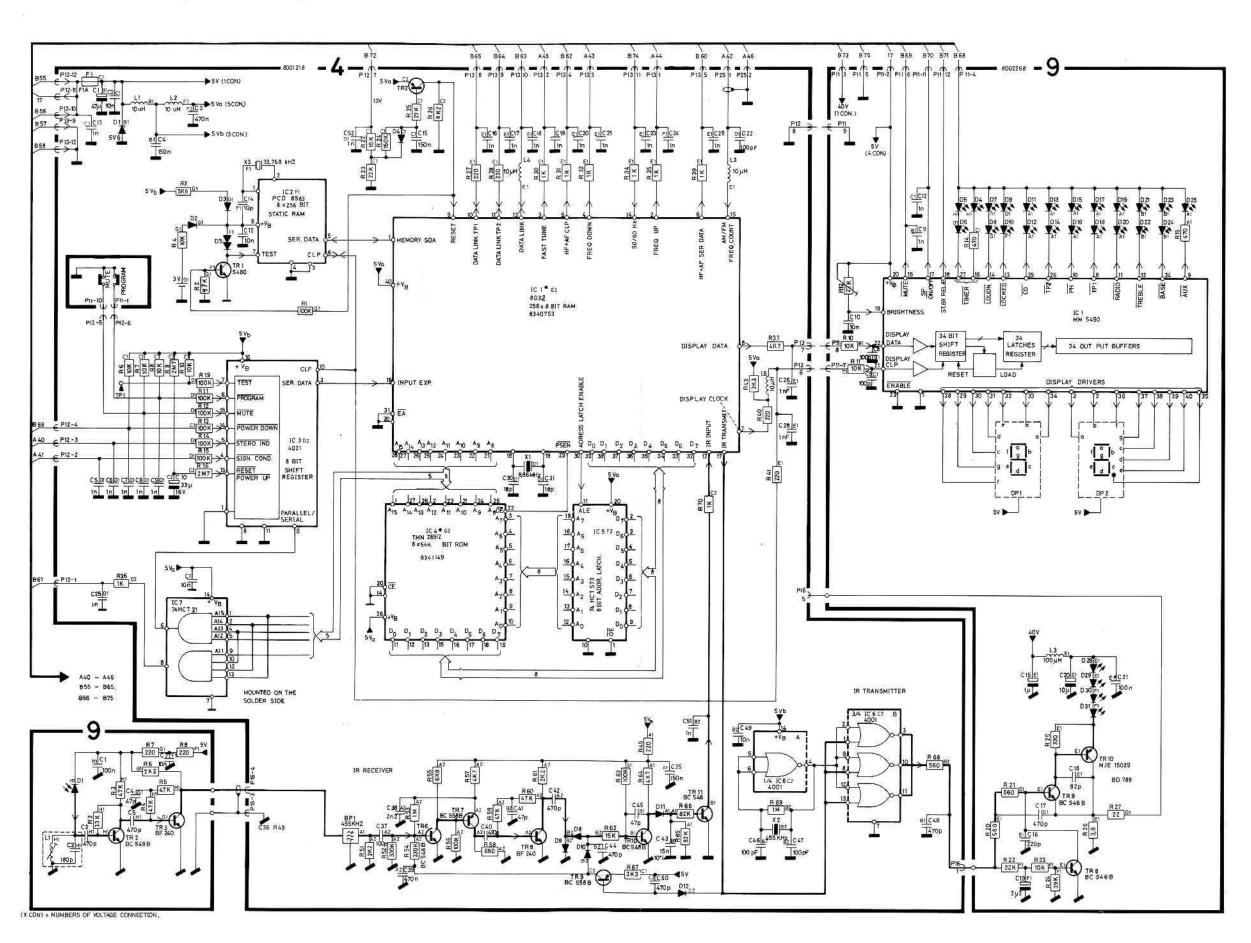


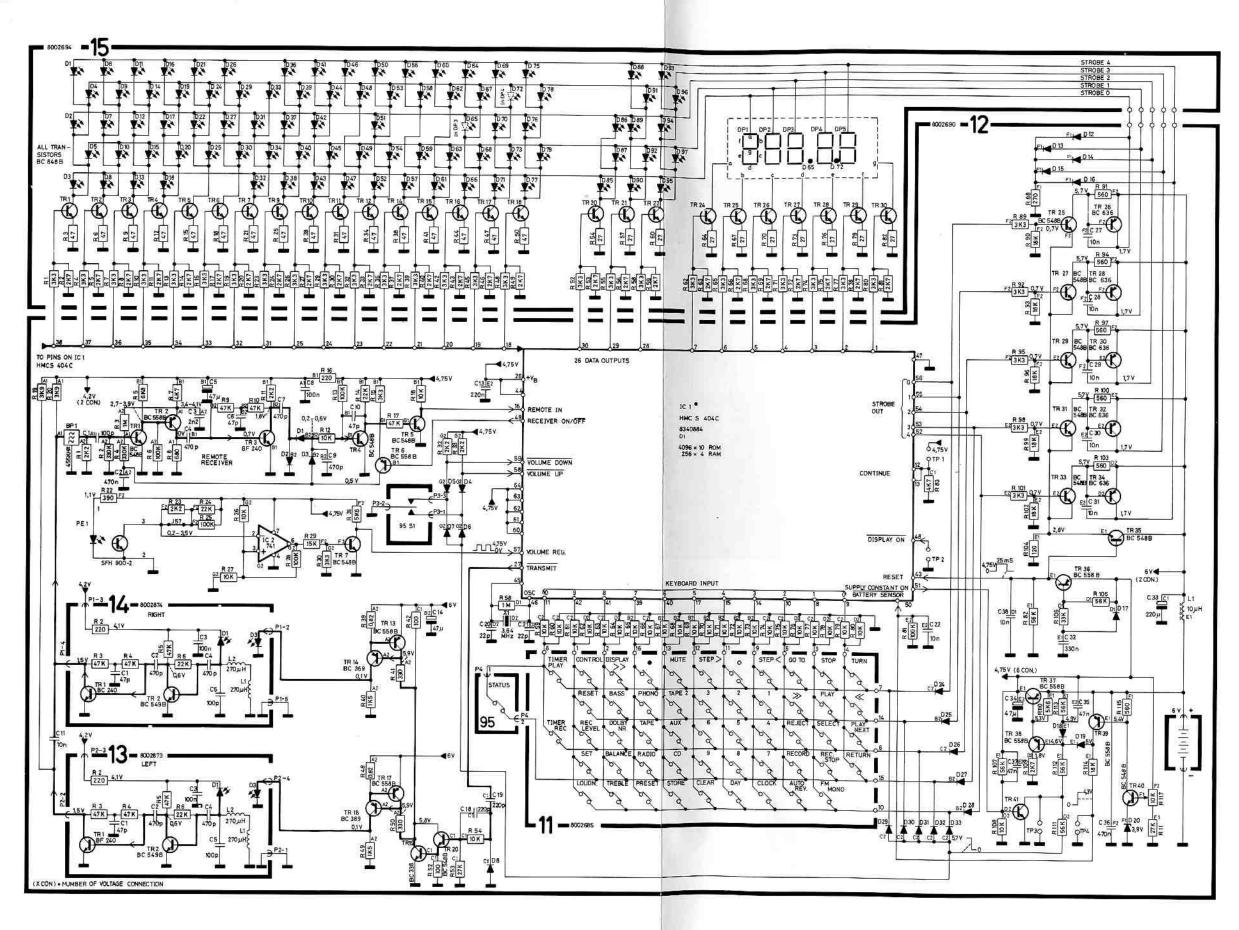
DIAGRAM B RIAA AMPL., INPUT SELECT, VOLUME AND TONE CONTROL, OUTPUT AMPL., POWER SUPPLY



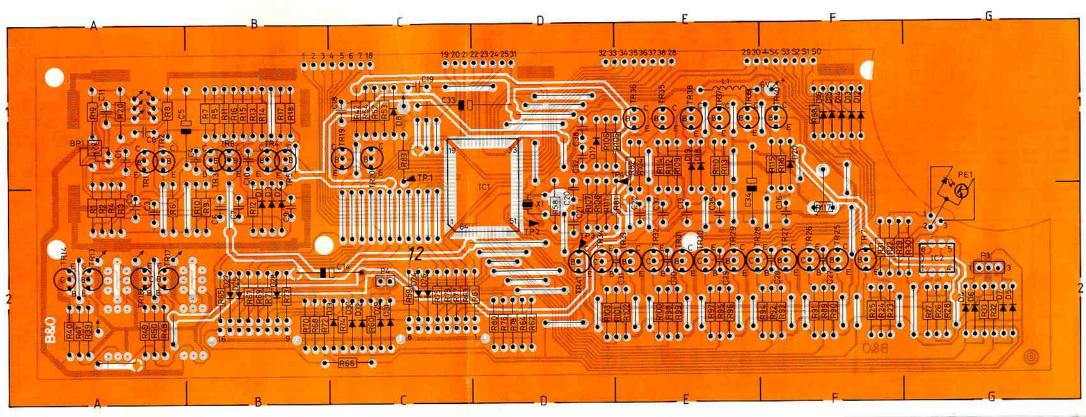
### DIAGRAM C MICROCOMPUTER, IR TRANSCEIVER, DISPLAY



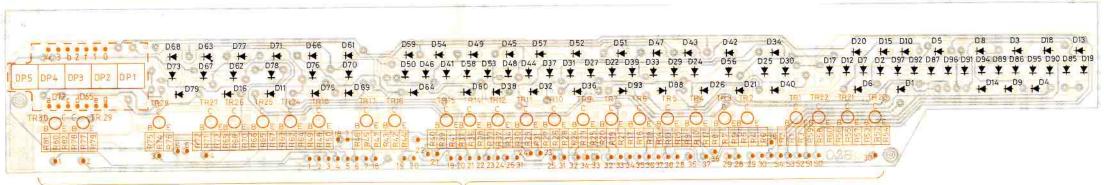
**DIAGRAM D MASTER CONTROL PANEL, TYPE 1551** 



Microcomputer 8002690 PCB 12



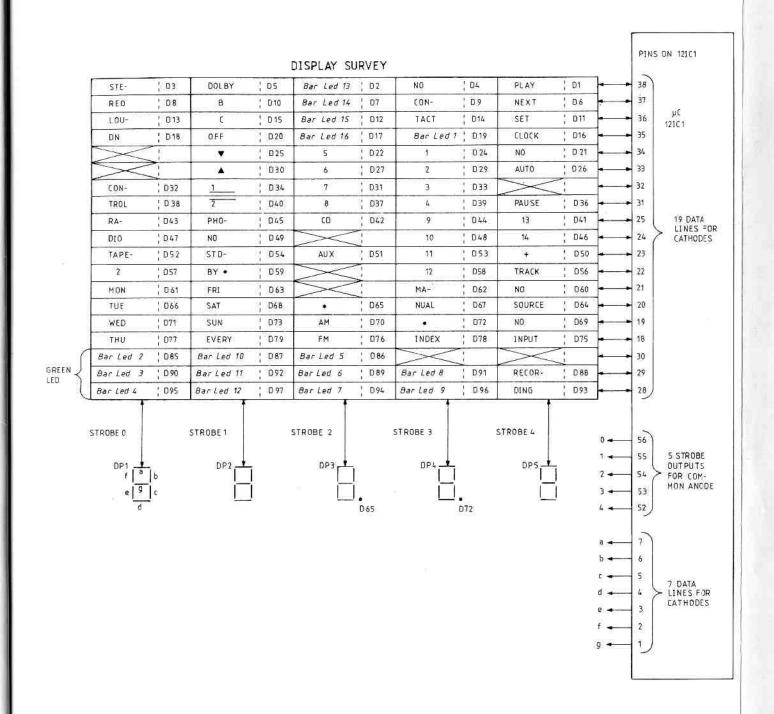
Display 8002694, PCB 15

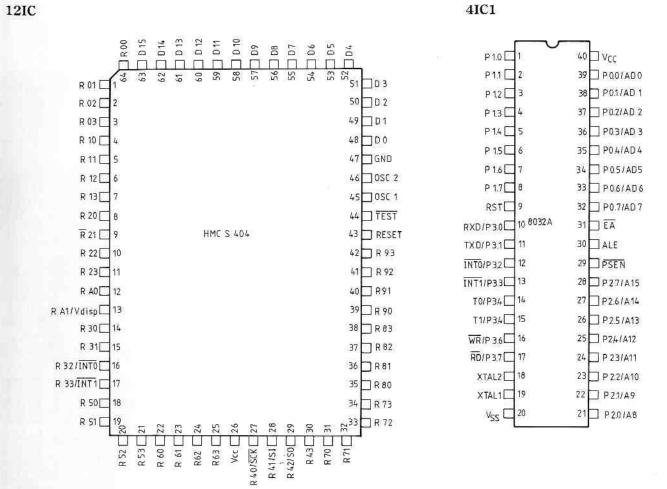


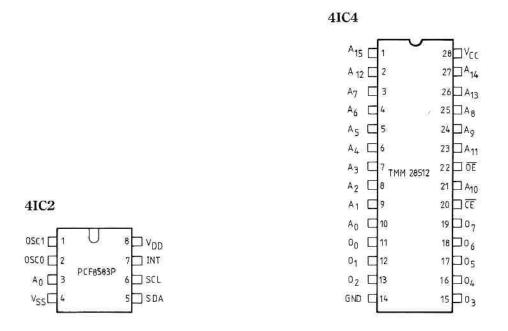
Pins on µC 12161

2-8

DISPLAY SURVEY FOR PCB 15 IN MASTER CONTROL PANEL

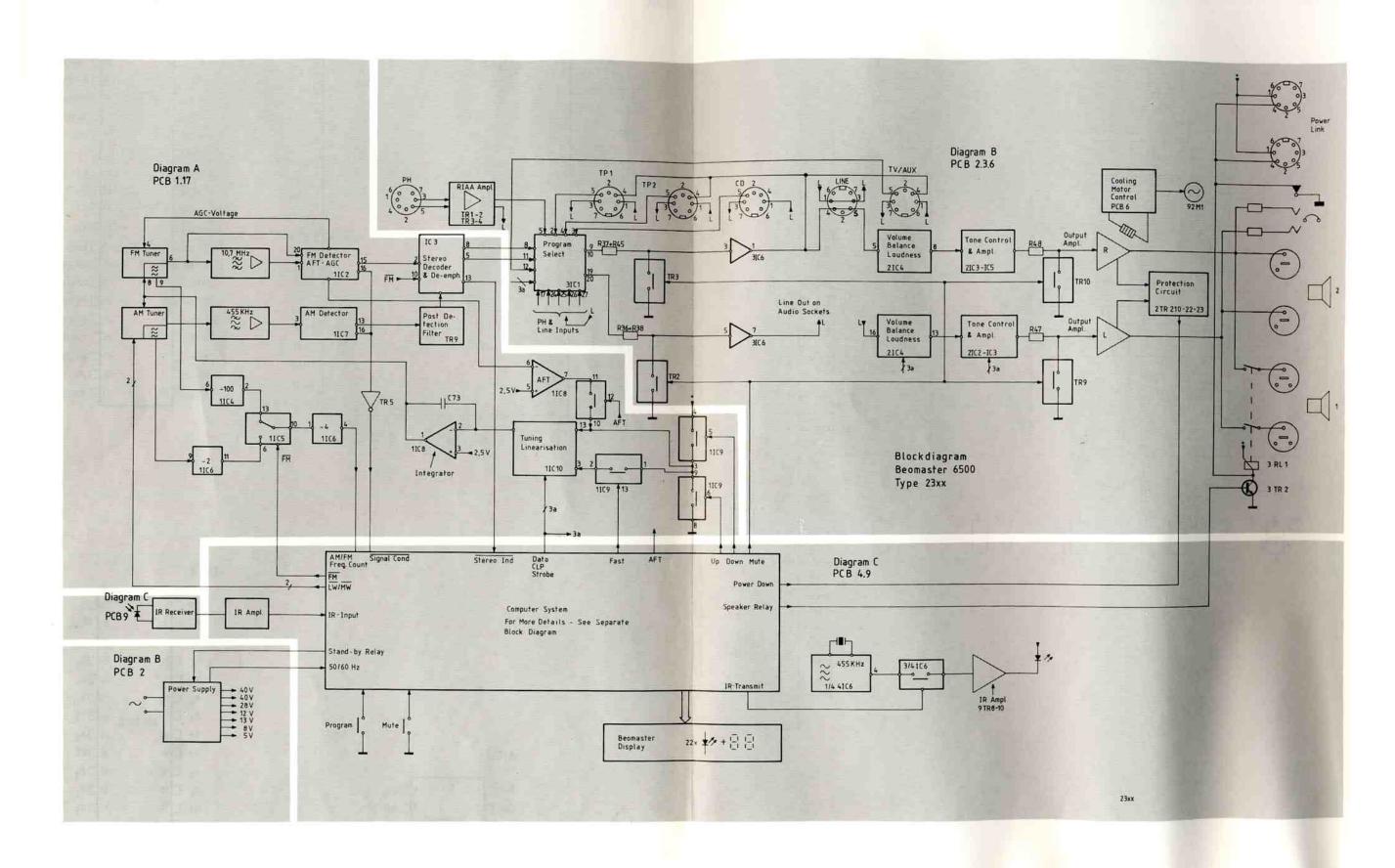






B

BLC



BLOCK DIAGRAM

Speakers 2 Power Link Blockdiagram Data Bus Microcomputer FM Diagram A MOIST TV/AUX PCB 1.17 Program Select Speaker 1 Buf-fer 3TR3 MW 3TR2/3RL1 LW 13.15.16 3101 10-12 3104 Diagram B PCB 2.3.6 Static RAM 8x256 Bit 34 Bit Shift Reg & Buffers Ser Data Stand By Relay
Sp. ON/OFF Reset 7 CLP Test 41C2 9101 µC 8032 Beomaster Display + [] [] 9D4-24 ,BP1,BP2 256×8 Bit RAM IF Input Address & Catch Enable Data Address Power Down Stereo / 5 + A8-A15 Signal Cond 1 4 13 Reset Power Up 8 Bit Address 8 A0-A7 64kx8Bit Latch HF+AF strobe Diagram C D0-D7 PCB 4.9 Diagram E PCB 11-15 AGC MCP IR Reciever Amplifier

VCC | P00/AD0 | P01/AD 1 | P02/AD 2

P03/AD3 P04/AD4 P05/AD5 P06/AD6

] P0.7/AD7 ] <del>EA</del> ] ALE

P27/A15 P26/A14 P25/A13

P24/A12
P 23/A11
P 22/A10
P 21/A9

] P2.0/A8

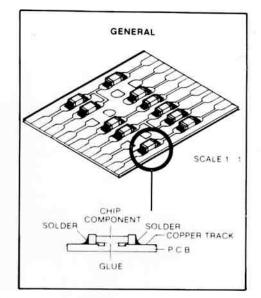
]<sup>V</sup>CC ]<sup>A</sup>14 ]A<sub>13</sub> ]A<sub>8</sub>

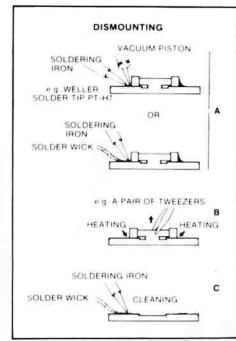
□ ōĒ □ A<sub>10</sub> □ Œ

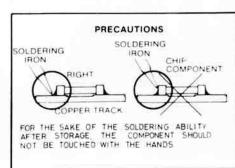
□05 □04 □03

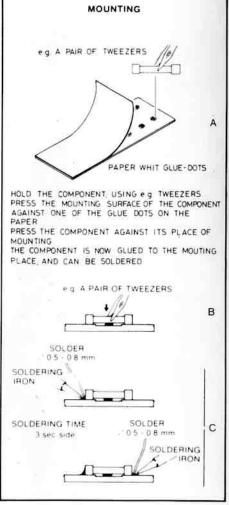
### LIST OF ELECTRICAL PARTS

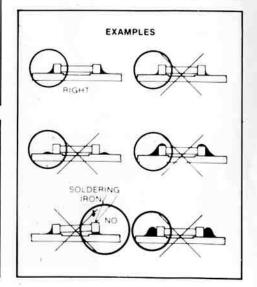
In the player chip components have been applied. For insertion and removal of chip components see the figure below.











LIST OF ELECTRICAL PARTS

17	19	20	22	24	31	32	42
8 C E	C	E B	D 6 ● S	G	503		B E
44	49	101	102	136	209	234	
	E C	16 9	14 8	[	A C	T	

Resistors not referred to are standard, see page 3-8

PCB 1, 8002671 HF, type 2336, 2337 8002818 HF, type 2338, 2340 8002908 HF, type 2339

IC2	8340756	136	LM1865	IC7	8340757	136	LA1245
IC3	8340758	136	LA3401	IC8	8340763	136	LF353
IC4	8340492	102	SP8629	IC9∆	8340202	102	4066
C5∆	8340245	102	4011	IC10∆	8340602	101	4052
IC6∆	8341102	101	74HC4520	IC11∆	8340782	136	4094
ΓR1-	8320625	42	BF240	TR14*△	8320396	24	MPF4392
ΓR4				TR15△	8320535	22	BF256C
ΓR5	8320497	20	BC547B	TR20	8320521	20	BC556B
ΓR6	8320509	20	BC548B	TR21	8320497	20	BC547B
ΓR7	8320503	20	BC557B	TR22	8320521	20	BC556B
ΓR9	8320627	20	BC549B	TR23	8320497	20	BC547B
ΓR10-	8320503	20	BC557B	TR24	8320640	17	BC636
rr11	de ancien de la company		To 1918 1 1819	TR25	8320497	20	BC547B
TR12	8320497	20	BC547B	TR200	8320509	20	BC548B
ΓR13	8320512	20	BC338-25				
D1	8300058	209	1N4148	D8	8300212	209	75V 0,2A
D2	8300568	234	SVc333C	D9	8300568	234	SVc333C
D3-	8300385	209	BA423	D10	8300212	209	75V 0,2A
D5	*********	000	13714.10	D11-	8300058	209	1N4148
D6	8300058	209	1N4148	D14			
D7	8300385	209	BA423				
R25	5370326	10kΩ	20% 0,1W	R142	5020336	69,8kΩ 1% 1/4W	
R51	5370128	100k	Ω 20% 0,1W	R143	5020263	100k	Q 1% 1/4W
R73	5370330	220k	Ω 20% 0,1W	R144	5020336	199000000000000000000000000000000000000	Ω 1% 1/4W
R141	5020263	100k	Ω 1% 1/4W	R204	5370328	47kΩ	20% 0,1W
C2	4010106	10nF	-20+80% 40V	C30	4130230		F 20% 63V
C3	4010101	4,7nF	10% 63V	C31	4010103		10% 63V
C4	4010107	22nF	-20+80% 40V	C32	4010107		-20+80% 40V
C5	4010101	4.7nF	10% 63V	C33	4130179		F 20% 63V
26	4010107		-20+80% 40V	C34	4010105		0% 63V
C7- C8	4010101	4,7nF	10% 63V	C35- C36	4200510		20% 16V
C9	4200512	1µF 2	20% 50V	C37	4010118		F 10% 63V
210	4200129		F-20+50% 16V	C38	4200510	10µF	20% 16V
C11-	4010105	1nF 1	0% 63V	C39	4030023		-20+80% 16V
C12		Subgest New	02/240, 7/8/22/20	C40	4200523		F 20% 50V
C13	4200515		20% 25V	C41-	4200512	Tpr 2	20% 50V
C14	4000142		5% 63V	C42	1010100	10-E	20   800/ 401/
C15-	4010106	10nF	-20+80% 40V	C43	4010106		-20+80% 40V .0% 63V
C19	1000505	00.7	000/ 101/	C44	4010105		.0% 65 v F -20+50% 16\
220	4200525		20% 10V	C45	4200129 4000137	197,000,000,000	5% 63V
C21	4010106		-20+80% 40V	C48	4130230		F 20% 63V
C22 C23	4010118		F 10% 63V	C49- C50	4130230	10011	To the state of th
C24	4010106 4130070		-20+80% 40V 0% 50V	C50	4100266	330pl	F 2,5% 63V
C25-	4130070		F 20% 63V	C51	4000150		5% 63V
C26	4130230	TOOM	2070 03 V	C52	4000155		5% 63V
27-	4010105	1 p.F. 1	0% 63V	C54	4100233	WWW Detroy	F 5% 63V
228	4010103	THE I	070 03 V	C54	4340002	2-22p	
229	4000191	47-T	5% 63V	C56	4340002	5,5-65	

E-DOTS

ZERS COMPONENT HE

MOUTING

В

LIST OF ELECTRICAL PARTS

	17	19	20	22	24	31	32	42
	B C E	C	E B	0 6 • S	G S D	503 TT		B E
ļ	44	49	101	102	136	209	234	
		E C	15 9	¥		<u>*</u>		

Resistors not referred to are standard, see page 3-8

 $\boldsymbol{\triangle}$  indicates that static electricity may destroy the component.

\* Specially selected or adapted sample.

PCB 1, 8002671 HF, type 2336, 2337 8002818 HF, type 2338, 2340 8002908 HF, type 2339

IC2	8340756	136	LM1865	IC7	8340757		LA1245
IC3	8340758	136	LA3401	IC8	8340763		LF353
IC4	8340492	102	SP8629	IC9∆	8340202	102	
IC5∆	8340245	102	4011	IC10∆	8340602	101	4052
IC6∆	8341102	101	74HC4520	IC11∆	8340782	136	4094
TR1-	8320625	42	BF240	TR14*△	8320396	24	MPF4392
TR4	0020020			TR15△	8320535	22	BF256C
TR5	8320497	20	BC547B	TR20	8320521	20	BC556B
TR6	8320509	20	BC548B	TR21	8320497	20	BC547B
TR7	8320503	20	BC557B	TR22	8320521	20	BC556B
TR9	8320627	20	BC549B	TR23	8320497	20	BC547B
TR10-	8320503	20	BC557B	TR24	8320640	17	BC636
TR11	0020000			TR25	8320497	20	BC547B
TR12	8320497	20	BC547B	TR200	8320509	20	BC548B
TR13	8320512	20	BC338-25				
DI	8300058	209	1N4148	D8	8300212	209	75V 0,2A
D1 D2	8300568	234		D9	8300568	234	SVc333C
D3-	8300385	209		D10	8300212	209	
	0300303	200	DITTEO	D11-	8300058	209	1N4148
D5 D6	8300058	209	1N4148	D14			
D7	8300385		BA423	m. =:			
R25	5370326	10k0	20% 0.1W	R142	5020336	69,81	kΩ 1% 1/4W
R51	5370128		Ω 20% 0,1W	R143	5020263	100k	cΩ 1% 1/4W
R73	5370330		Ω 20% 0,1W	R144	5020336		kΩ 1% 1/4W
R141	5020263		cΩ 1% 1/4W	R204	5370328	47kΩ	2 20% 0,1W
C2	4010106	10nI	7-20+80% 40V	C30	4130230		ıF 20% 63V
C3	4010101		7 10% 63V	C31	4010103	2,2n	F 10% 63V
C4	4010107		F-20+80% 40V	C32	4010107	111111111111111	F-20+80% 40V
C5	4010101		F 10% 63V	C33	4130179		nF 20% 63V
C6	4010107		F-20+80% 40V	C34	4010105		10% 63V
C7- C8	4010101	4,7n1	F 10% 63V	C35- C36	4200510	10µl	F 20% 16V
C9	4200512	1uF	20% 50V	C37	4010118		pF 10% 63V
C10	4200129	100	uF-20+50% 16V	C38	4200510		F 20% 16V
C11-	4010105	1nF	10% 63V	C39	4030023	47nF	-20+80% 16V
C12				C40	4200523		µF 20% 50V
C13	4200515	4.7u	F 20% 25V	C41-	4200512	1µF	20% 50V
C14	4000142		F 5% 63V	C42			
C15-	4010106		F-20+80% 40V	C43	4010106		F -20+80% 40V
C19				C44	4010105		10% 63V
C20	4200525	22µ	F 20% 10V	C45	4200129		μF -20+50% 16V
C21	4010106	10n	F-20+80% 40V	C48	4000137		₹5% 63V
C22	4010118		pF 10% 63V	C49-	4130230	100	nF 20% 63V
C23	4010106		F-20+80% 40V	C50			V2014242215 (0.002428)
C24	4130070		10% 50V	C51	4100266		pF 2,5% 63V
C25-	4130230	100	nF 20% 63V	C52	4000150		F 5% 63V
C26				C53	4000155		F 5% 63V
C27-	4010105	1nF	10% 63V	C54	4100233		pF 5% 63V
C28		Delt Trees.		C55	4340002		
C29	4000191	47-1	F 5% 63V	C56	4340003	5.5-	65pF

# Bang & Olufsen

PCB 2, 8002679 8002914, type 2338 Output and Power supply

TR16			0.174.30	111210	0020000	10	
TR15	8320428	32	BD438	TR210	8320505	49	BF422
TR14-	8320497	20	BC547B	TR208- TR209	8320646	44	Drogo
TR13	8320503	20	BC557B	TR207	8320503	20	BC557B BF858
TR12	8320369	31	BD534 45V	TR206	8320497	20	BC547B
TR9	8320369	31	BD534 45V	TR205	8320631	17	BF423
TR8	8320503	20	BC557B	TR204	8320497	20	BC547B
TR7	0020431	20	222112	TR203	8320514	20	BC546B
TR5 TR6-	8320369 8320497	20	BC547B	TR201	0020430		
TR4	8320498	$\frac{20}{31}$	BC547C BD534 45V	TR23 TR201-		20	BC547B
TR3	8320497	20	BC547B	TR22	8320521 8320497	20	BC547B
TR2	8320552	20	BC327-25	TR19	8320507 8320521	20 20	BC556B
TR1	8320497	19	BC547B	TR18	8320497	20	BC547B BC337-25
				_	2300 000	2257	
IC200* IC201*	8340470 8340469	31 31	BDV65B 100V BDV64B 100V	IC205	8340400	19	MPSA13 30
X1	8030087	456k	Hz	X2	8030088	455k	Hz
P1 P2	7220431 7220428	Plug Plug		P3 P4	7220312 7210612		2pol. et Antenne
TU1	8050093 8050102	Tune Tune	r r, type 2339	ATRODEX	Unication Transport Artist	3.560	Ch. 12
VVIII.	9050000	The					
BP1- BP3	8030134	10,7n	nHz	BP4	8030056	455kHz 1kHz	
L9	8020560	Coil	LB S0116				
L8	8020559		MB S0116	L201			
L5	8022240	Coil	19,5mH 2%	L200-	8022239	Coil	32mH 2%
L4	8020552	Coil	10uH 10%	L14	8020562	10 P. P. W. G. CO.	MF 455kHz
L3	8020569		18uH 10%	L13	8020561	Coil	MF 455H
L1 L2	8020552	Coil		L12	8020557		Antenne MB
L1	8020552	Coil	10uH 10%	L11	8020558	Coil	Antenne LB
C82	4130230		F 20% 63V	C208	4130230	100n	F 20% 63V
C81	4340003	5,5-6		C207	4200515	4,7µF	20% 25V
C79 C80	4130230	. N. T. A. S. C. C. C. C.	F 20% 63V	C206	4100210		5% 63V
C78 C79	4130230 4100210		F 20% 63V 5% 63V	C204 C205	4100261		2,5% 63V
C77	4010103	TO THE STATE OF TH	10% 63V	C203 C204	4100235 $4100261$		F 5% 63V F 2,5% 63V
C76	4100247	The second second	5% 63V	C202	4100238		5% 63V F 5% 63V
C73	4130390	TO COLUMN	PAL 2077	C201	4200510		20% 16V
C72	4010106		-20+80% 40V	C200	4100209		F 5% 63V
C71	4010107	22nF	-20+80% 40V	C98	4200483		20% 16V
C70	4000226	68pF	5% 63V	C97		SECULIAR SE	
C68- C69	4100210	1,5nF	370 03 V	C94 C96-	4130230		F 20% 63V
267	4130235		20% 63V 5% 63V	C93 C94	4010107 4010105		-20+80% 40V 0% 63V
266	4010106		-20+80% 40V	C92	4200510		20% 16V -20+80% 40V
265	4200129		F-20+50% 16V	C91	4130230		F 20% 63V
264	4200517		20% 50V	C90			
C63	4130235	47nF	20% 63V	C89-	4010107		-20+80% 40V
061- 062	4200313	4,7µr	2070 23 V	C88	4130235		20% 63V
260	4130235 4200515		20% 63V 20% 25V	C86 C87	4130233 4010105		0% 63V
259	4130233		F 20% 63V	C85	4010103		10% 63V F 20% 63V
258		100nF 20% 63V		C84	4130233		F 20% 63V

19	20	49	101	103	136	209	214
C B	E B	E C B	9 [9	ē 5		AC	<u>^</u> _ <b>_</b>
•••			1 8	1 4			

Resistors not referred to are standard, see page 3-8

 $\boldsymbol{\Delta}$  indicates that static electricity may destroy the component.

\* Specially selected or adapted sample.

RL6	7600046	Rela	y 6V				
F	6600010	T4A	-T/250V				
P15	7220429	Plug	7/7				
P14	7220431	Plug	9/9	P24	7220195	Plug	2/2
P	7210510		låse minijack	P23	7220185	Plug	
P	7220580	Plug	2pol.	P18	7220160	Plug	5/4
L200	6850114	Coil	o,5uH				
C200	4200368	63V	F-10+100%	C216	4130233	22011	1 20% 037
C20	4010101		` 10% 63V F -10+100%	C213 C215-	4130233		F 20% 63V
C17	4010105		10% 63V		4200523		20% 16V
C16	4010101		10% 63V	C211 C212	4200523	0.47	F 20% 50V
C15	4200417		μF -10+50% 16V	C210-	4130233	220n	F 20% 63V
C14	4200510		20% 16V	C209	4130262		20% 63V
C13	4000		000/ 107	C208	4000343		2% 63V
C12-	4130230	100n	F 20% 63V	C207	4000136		5% 63V
C11	4200525		20% 10V	C206	****	00	EN/ COTT
C10	4200688		20% 50V	C205-	4200511	100µF 20% 10V	
C9				C204	4010101	4,7nF 10% 63V	
C8-	4200510	10µF	10µF 20% 16V		4000151		F 5% 63V
C3- C5	4130280	220nF 20% 100V		C201 C202	4130257 4200517	33nF 20% 63V 2,2µF 20% 50V	
K40	3220030	JJUK	36 AV 70 A/ B 11	Nobo.			
R33 R40	5220036		Ω 10% 1/2W	R229	0102010	0,005	N. S.
R33	5020200		Ω 1% 1/4W	R228-	5102016		2 10% 1W
R18 R30	5020881		2 1% 1/4W	R226	5370341	1000	20% 0,1W
R16	5020335 5020881	1000	10% 0,25W	R220-	5020000	21012	0,00,010
R15	5020231		Ω 1% 1/4W Ω 1% 1/4W	R220-	5020658		5% 0,33W
R12	5020291		1% 1/4W Ω 1% 1/4W	R214	5020633		5% 0,35W
R11	5020770			R211	5020110		1% 1/4W
R8	5020219		1% 1/4W Ω 1% 1/4W	R211	5220036 5010797		2% 1/4W
R7	5020239		Ω 1% 1/4W	R41 R50	5020782		1% 1/4W Ω 10% 1/2W
D10	8300023	209	1N4002 100V	D206			
D8				D205-	8300058	209	1N4148
D6-	8300058	209	1N4148	D204	8300409	214	BAV20 150V
D5	8300541		3,3V 2% 0,4W	D203		-00150500	1000 000 000 000 000 000 000 000 000 00
D4	8300058	209		D201-	8300058	209	1N4148
03	0300231		C3700/2200	D200	8300029	209	12V 5% 0,4W
D2 D3	8300487		B80	D12	8300212	209	1N4448
	8300487		1N4148 KBU6D	D12			

PCB 3, 8001219
Preamplifier

Bang & Olufsen

IC1∆ IC2	8340759 8340790		TC9164 4558	IC4∆ IC5	8340760 8340790		TC9177 4558
ІСЗ∆	8340761		TC9184	IC6∆	8340763		LF353
TR1	8320497	20	BC547B	TR6	8320497	20	BC547B
TR2-	8320639	49	MPSA17	TR7	8320503		BC557B
TR3*				TR8	8320497	20	BC547B
TR4	8320497	20	BC547B	TR9-	8320525		MPSA16
TR5	8320503	20	BC557B	TR10	0020020	10	MI SHIO
D1-	8300058	209	1N4148	D6-	8300058	209	1N4148
D4 D5	8300407	209	12V 2% 0,4W	D9			
C1	4200512	1E 9	1004 FOV	CAF	4000100	47. F	For COM
C1-	4200512	THE 2	20% 50V	C45-	4000193	47pF	5% 63V
C8	4010155	990-1	E COV	C46	4000510	4	2004 5055
C9-	4010155	220pl	F 63V	C47	4200512		20% 50V
C16	101010-	4 44 4	00/ 0011	C48	4200510		20% 16V
C17-	4010105	inF 1	0% 63V	C49	4130306		F 10% 63V
C18		2022	D 4 00/ 2077	C50	4130268		5% 63V
C19-	4130306	100nl	F 10% 63V	C51	4130304		10% 63V
C20	****	2003200	00/ 5075	C52	4100237		5% 63V
C21	4200512		0% 50V	C53	4000204		F 5% 63V
C22-	4010111	3,3nF	10% 63V	C54	4200512		20% 50V
C23		322		C55	4000204		F 5% 63V
C24	4000205		F 5% 63V	C56	4200510		20% 16V
C25-	4200517	2,2µF	20% 50V	C57	4130306		F 10% 63V
C26		1000		C58	4130268		5% 63V
C27	4000205		7 5% 63V	C59	4130304		10% 63V
C28	4200512		0% 50V	C60	4100237		5% 63V
C30	4000243		7 5% 63V	C61-	4200510	$10\mu F$	20% 16V
C31	4000193		5% 63V	C62	Company of the common of the c	12127100	angu owen con
C32	4000243		55% 63V	C63-	4130305	33nF	10% 63V
C33	4000193	1200	5% 63V	C64	120202/20000		
C35-	4200512	1µF 2	0% 50V	C65	4200688		20% 50V
C38				C66	4200523		F 20% 50V
C39-	4200510	10µF	20% 16V	C69-	4010155	220p	F 10% 63V
C40	1000510	1 72 0	AN FAIT	C70			
C41-	4200512	Tur 2	0% 50V	C71-	4130306	100n	F 10% 63V
C42	1000005	150.1	2 504 6034	C73	1010105		001 0077
C43- C44	4000205	150pi	F 5% 63V	C74- C75	4010105	lnF l	.0% 63V
P1-	7220428	Plug	6/6	P6	7220429	Plug	7/7
P2		8	war affect	P8	7220710	Plug	
P3	7220425	Plug :	3/3	P9-	7210418		et 7pol.
P4	7220313	Plug 3		P14	CHARLES CAME	Services	- Peri
P5	7220425	Plug		Company of the compan			
IC1Δ	8341069	136	8032	IC4∆	8341309		27512
IC2∆	8341105	103	PCF8583	IC5△	8340777	136	74HCT573
IC3∆	8340276	101	4021	IC6∆	8340373	136	4001B
ΓR1	8320509		BC548B	TR8	8320625	19	BF240
TR2	8320510		BC558B	TR9	8320510	20	BC558B
TR6	8320509	20	BC548B	TR10-	8320509	20	BC548B
TR7	8320510	20	BC558B	TR11			
D1	8300128		5,6V 5% 0,4W	D5	8300056	209	ZTE 1.5
D2	8300600		1N4148	D8-	8300058	209	1N4148
	PRODUCE	209	1N4148	D12			
D3- D4	8300058	209	1114140	D12			

PCB 4, 8001218 Microcomputer

20	32	42	44	53	124	203	209
E B	E C B	B E	O E c a	G1 G2	40 21	٦	<u>^10c</u>
246							
C A							

Resistors not referred to are standard, see page 3-8

D1	8300029	209 12,0V 5% 0,4W			
TR1 TR2 TR3	8320497 8320540 8320521	20 BC557C	TR4- TR5	8320542	44 BD825-16 45V
C2 C3	4010027	1nF 10% 63V	C7- C8	4010027	1nF 10% 63V
C1-	4130214	10nF 20% 63V	C4- C5	4130214	10nF 20% 63V
X1 X2	8090104 8030024	10 To	Х3	8090078 8700027	32,768kHz Lithium battery
P4 P12- P13	7200056 7220554	Socket 28pol. Plug 12/12	P16 P25	7220585 7220176	Plug 5pol. Plug 2/2
BP1	8030056	455kHz			
F1	6604009	Sikr. 1A 250V			
L2			L4 L5	8020707	Coil 4,7uH 10%
	8020342	10uH	L3-	8020707	Coil 4,7uH 10%
C29 C30- C31	4000136	22pF 5% 63V			
C28-	4010035	1nF 10% 63V	C52	4010035	1nF 10% 63V
C23- C26	4010035	1nF 10% 63V	C51	4010125	1nF 10% 63V
C21 C22	4000204	100pF 5% 63V	C49 C50	4010106 4010128	10nF -20+80% 40V 470pF 10% 63V
C16-	4010035	1nF 10% 63V	C47 C48	4010128	470pF 10% 63V
C15	4130307	150nF 10% 63V	C46-	4000204	100pF 5% 63V
C14	4000144	10pF 63V	C45	4000193	47pF 5% 63V
C12 C13	4010201 4010105	10nF -10+80% 40V 1nF 10% 63V	C44	4010128	470pF 10% 63V
C10	4200414	33µF -10+50% 16V	C42 C43	4010128 4130315	470pF 10% 63V 15nF 5% 63V
C9		SEC TAX STATE TO MAN PROPERTY.	C41	4000193	47pF 5% 63V
C5-	4010035	1µF 10% 63V	C40	4010128	470pF 10% 63V
C3 C4	4130313 4130307	150nF 10% 63V	C39	4130313	470nF 20% 63V
C2	4010106	10nF -20+80% 40V 470nF 20% 63V	C38	4010103	2,2nF 10% 63V
C1	4200364	47µF -10+50% 10V	C35 C37	4130307 4000204	150pF 10% 63V 100pF 5% 63V

PCB 5, 8001212 Socket panel

PCB 6, 8002173 Fan Regulation

Bang & Olufsen

PCB 7, 8001280 Relay

PCB 9, 8001284 Display

PCB 17, 8050093 8050102 type 2339 Tuner

R3 R5	5020565 5230012		R7	5020539	47,5kΩ 1% 1/4W
	4040			The second second second	N920-120 (2000000 - 2000000)
C1	4010041	10nF -20+80% 40V	C5	4130235	47nF 20% 63V
C2	4130259	220nF 1% 160V	C6	4200542	68µF 20% 63V
C3	4130260		C7	4200102	470µF -10+100% 4
C4	4010105	1nF 10% 63V			
TR2	8320512	BC338-25			
D1	8300058	<b>209</b> 1N4148			
R7	5020455	470Ω 5% 1W	R9	5020455	470Ω 5% 1W
P9	7220585	Plug 5pol.	P23	7220319	Plug 8pol.
P21	7220206	Plug 5/4	P25	7220711	Plug 4pol.
RL1	7600073	Relay 6V			
IC1∆	8340467	<b>124</b> 5450			
TR2	8320627	20 BC549B	TR9	8320514	20 BC546B
TR3	8320625	42 BF240	TR10	8320683	32 BD788 60V
TR8	8320776	BC546B	A5450		
D4- D25	8330150	246 Led red	D28- D31	8330227	203 IR Emitter
R12	5370068	22kΩ 20% 0,1W			
C1	4130230	100nF 20% 63V	C15	4200380	1µF -20+50% 63V
C3	4010128	470pF 10% 63V	C16	4010155	220pF 10% 63V
C4	4000193	47pF 5% 63V	C17	4010128	470pF 10% 63V
C5-	4010128	470pF 10% 63V	C18	4000142	82pF 5% 63V
C6			C19	4201035	2,2µF -10+50% 63V
C7	4010106	10nF -20+80% 40V	C20	4200342	10µF -10+50% 63V
C8-	4000243	100pF 5% 63V	C21	4130230	100nF 20% 63V
C9			C23-	4010105	1nF 10% 63V
C10	4010189	10nF 30% 25V	C24		
C11- C12	4010105	1nF 10% 63V	아마시아		
L1	8020562	Coil 455kHz	L3	8020621	Coil 100uH
P	7220577	Plug 17pol.	P11	7220548	Plug 12/12
S1- S2	7400268	Omskifter 1pol			
ΓR1- ΓR2	8320610	53 BF995	TR3- TR4	8320672	53 BFS20
D1- D4	8300301	<b>209</b> BB204			
R32- R34	5370253	47kΩ 20% 0,1W			

8300058 209 1N 4148

Resistors not referred to are standard, see page 3-8

△ indicates that static electricity may destroy the component.

Specially selected or adapted sample.

D1-

D19

D20

R58

R117

8300058 209 1N 4148

8300404 209 BZX79B 12

5020288 1 MΩ 1% 1/4W

5370074 10 kΩ 20% 0.1W

C1	4000331	6.8pI	0,25pF 50V	C17-	4000260	5pF (	,5pF 50V	
C2	4000257		5% 50V	C18	1000200			
C3-	4010132		10% 50V	C19-	4010132	1nF 1	0% 50V	
C6	1010102			C20				
C7	4000257	27pF	5% 50V	C21	4000275	15pF	5% 50V	
C8	4000332		0.5pF 50V	C22	4000228		5% 50V	
C9	4000258		),25pF 50V	C23	4010132	1nF 10% 50V		
C10	4000330		0.5pF 50V	C24	4010157	10nF 10% 50V		
C12	4010132		10% 50V	C25	4000294	0.5pF 0.25pF 50V		
C13	4000231	12,000	5% 50V	C26	4200512		20% 50V	
C14	4010157		10% 50V	C27-	4000321		F 5% 50V	
C16	4000332			C29		· ·		
L1	6850158	Coil	70nH	L6	8020632	Coil	0,68uH 20%	
L2	6850157	1997	115nH	L7	8020567		10,7mHz	
L2 L3	8020577			L8	6850159		10,7mH2 100nH	
L4-	6850157		115nH	Lo	0000103	Con	A SOUTH A SOUT	
L5	0000101	Con	LLOHII					
P1	7220129	Plug	2/2	P3	7220210	Plug	4/4	
P2	7220212	Plug	3/3	5-54		1000		
IC1∆	8340884	147	HMC S4040	IC2	8340141	103	LM 741	
TR1	8320108	20	BC 548B	TR20-	8320108	20	BC 548B	
TR2	8320104	20	BC 558B	TR25				
TR3	8320311	42	BF 240	TR26	8320640	49	BC 636	
		20	BC 548B	TR27	8320108	20	BC 548B	
	8320108					02	BC 636	
TR4-	8320108	20		TR28	8320640	49	DC 030	
TR4- TR5 TR6	8320108	20	BC 558B	TR28 TR29	8320640 83202108		BC 548B	
TR4- TR5 TR6			BC 558B BC 548B		83202108			
TR4- TR5 TR6 TR7	8320104	20		TR29	83202108	20	BC 548B	
TR4- TR5 TR6 TR7 TR11	8320104 8320108	20 20	BC 548B BC 558B	TR29 TR30	83202108 8320640	20 49	BC 548B BC 636	
TR4- TR5 TR6 TR7 TR11 TR12	8320104 8320108 8320104	20 20 20	BC 548B	TR29 TR30 TR31	83202108 8320640 8320108	20 49 20	BC 548B BC 636 BC 548B	
TR4- TR5 TR6 TR7 TR11 TR12 TR13	8320104 8320108 8320104 8320450	20 20 20 17	BC 548B BC 558B BC 369	TR29 TR30 TR31 TR32	83202108 8320640 8320108 8320640	20 49 20 49	BC 548B BC 636 BC 548B BC 636	
TR4- TR5 TR6 TR7 TR11 TR12 TR13 TR14	8320104 8320108 8320104 8320450 8320104	20 20 20 17 20	BC 548B BC 558B BC 369 BC 558B	TR29 TR30 TR31 TR32 TR33	83202108 8320640 8320108 8320640 8320108	20 49 20 49 20	BC 548B BC 636 BC 548B BC 636 BC 548B	
TR4- TR5 TR6 TR7 TR11 TR12 TR13 TR14 TR15	8320104 8320108 8320104 8320450 8320104 8320450	20 20 20 17 20 17	BC 548B BC 558B BC 369 BC 558B BC 369	TR29 TR30 TR31 TR32 TR33 TR34	83202108 8320640 8320108 8320640 8320108 8320640	20 49 20 49 20 49	BC 548B BC 636 BC 548B BC 636 BC 548B BC 636	
TR4- TR5	8320104 8320108 8320104 8320450 8320104 8320450 8320104	20 20 20 17 20 17 20	BC 548B BC 558B BC 369 BC 558B BC 369 BC 558B	TR29 TR30 TR31 TR32 TR33 TR34 TR35	83202108 8320640 8320108 8320640 8320108 8320640 8320108	20 49 20 49 20 49 20	BC 548B BC 636 BC 548B BC 636 BC 548B BC 636 BC 548B	
TR4- TR5 TR6 TR7 TR11 TR12 TR13 TR14 TR15	8320104 8320108 8320104 8320450 8320104 8320450 8320104 8320450	20 20 20 17 20 17 20 17	BC 548B BC 558B BC 369 BC 558B BC 369 BC 558B BC 369	TR29 TR30 TR31 TR32 TR33 TR34 TR35 TR36-	83202108 8320640 8320108 8320640 8320108 8320640 8320108 8320104	20 49 20 49 20 49 20	BC 548B BC 636 BC 548B BC 636 BC 548B BC 636 BC 548B	

D4-

D33

PCB 12, 8002690 Microcomputer

### Bang & Olufsen 3-8 4003128 100 pF 5% 63V C18-4010088 220 pF 63V C2 4130228 470 nF 20% 63V C19 C3 4010103 2.2 nF 10% 63V C20-4000136 22 pF 5% 63V C4 4010024 470 pF 10% 63V C21 C5 4200634 47 µF -10+50% 10V C22 4010041 10 nF -20+80% 40V C6 4000057 47 pF 5% 63V C27-4010041 10 nF -20+80% 40V 4010024 470 pF 10% 63V C32 C8 4130179 100 nF 20% 63V C33 4200396 220 µF -20+50% 16V C9 4010024 470 pF 10% 63V C34 4200364 47 µF -10+50% 10V C10 4000057 47 pF 5% 63V C35 4130210 47 nF 20% 63V C11 4010041 10 nF -20+80% 40V C36 4130228 470 nF 20% 63V C13 4130215 220 nF 20% 63V 4130210 47 nF 20% 63V C14 4200364 47 µF -10+50% 10V C38 4010041 10 nF -20+80% 40V L1 8020342 Coil 10 µH 10% 8030056 455 kHz ±1kHz 8090057 Crystal 3.64 MHz X1 7400268 Switch 1 pol. S1 8320311 42 BF 240 8320095 20 BC 549B D1 8330145 244 BPW 82 8330140 203 TSHA 5502 D3C1 4000057 47 pF 5% 63V 4010024 470 pF 10% 63V C2 4010024 470 pF 10% 63V C5 4000243 100 pF 5% 63V C3 4130356 100 nF 20% 63V 8020590 Coil 270 µH 10% L2 8020590 Coil 270 µH 10% 7220447 Plug 5/5 pins 14TR1 8320311 **42** BF 240 14TR2 8320095 20 BC 549B 14D1 8330145 244 BPW 82 14D2-8330140 203 TSHA 5502 14D3 4000057 47 pF 5% 63V 4010024 470 pF 10% 63V C2 4010024 470 pF 10% 63V C5 4000243 100 pF 5% 63V C3 4130356 100 nF 20% 63V L1 8020590 Coil 270 µH 10% 8020590 Coil 270 µH 10% 7220447 Plug 5/5 pins TR1 8320615 51 BC 848B TR30 D1-8330152 246 LED reed DP1-8330131 HD 1075R/P 100PA

DP5

7220587 Plug 7/7 pins

PCB 15, 8002694 Display

D85-

D97

8330151 246 LED Green

7220581 Plug 7/7 pins

PCB 13, 8002873

PCB 14, 8002874

IR - Right

IR - Left

0,5pF 50V 10% 50V

F 5% 50V F 5% 50V 10% 50V F 10% 50V F 0,25pF 50V 20% 50V pF 5% 50V

0,68uH 20% 10,7mHz 100nH

3 LM 741

g 4/4

BC 548B

BC 636 BC 548B BC 636 BC 548B BC 636 BC 548B BC 636

BC 548B BC 636 BC 548B BC 558B 0 BC 548B

09 1N 4148

Bang & Olufse	en					3-8
	C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C13 C14	4003128 4130228 4010103 4010024 4200634 4000057 4010024 4130179 4010024 4000057 4010041 4130215 4200364 8020342	100 pF 5% 63V 470 nF 20% 63V 2.2 nF 10% 63V 470 pF 10% 63V 47 μF -10+50% 10V 47 μF 5% 63V 470 pF 10% 63V 100 nF 20% 63V 470 pF 10% 63V 470 pF 10% 63V 470 pF 5% 63V 10 nF -20+80% 40V 220 nF 20% 63V 47 μF -10+50% 10V Coil 10 μH 10%	C18- C19 C20- C21 C22 C27- C32 C33 C34 C35 C36 C37 C38	4010088 4000136 4010041 4010041 4200396 4200364 4130210 4130228 4130210 4010041	220 pF 63V 22 pF 5% 63V 10 nF -20+80% 40V 10 nF -20+80% 40V 220 μF -20+50% 16V 47 μF -10+50% 10V 47 nF 20% 63V 470 nF 20% 63V 47 nF 20% 63V 10 nF -20+80% 40V
	X1	8090057 7400268	Crystal 3.64 MHz			
	8	1994 II-4000120 (400 PMC)	Switch 1 pol.	Vanishee Total (	vanisharan tiranis	
PCB 13, 8002873 IR – Left	TR1	8320311	42 BF 240	TR2	8320095	20 BC 549B
	D1	8330145	244 BPW 82	D2- D3	8330140	203 TSHA 5502
	C1 C2 C3	4000057 4010024 4130356	47 pF 5% 63V 470 pF 10% 63V 100 nF 20% 63V	C4 C5	4010024 4000243	470 pF 10% 63V 100 pF 5% 63V
	L1	8020590	Coil 270 µH 10%	L2	8020590	Coil 270 µH 10%
	P35	7220447	Plug 5/5 pins			
PCB 14, 8002874 IR – Right	14TR1	8320311	42 BF 240	14TR2	8320095	<b>20</b> BC 549B
	14D1	8330145	<b>244</b> BPW 82	14D2- 14D3	8330140	203 TSHA 5502
	C1 C2 C3	4000057 4010024 4130356	47 pF 5% 63V 470 pF 10% 63V 100 nF 20% 63V	C4 C5	4010024 4000243	470 pF 10% 63V 100 pF 5% 63V
	L1	8020590	Coil 270 µH 10%	L2	8020590	Coil 270 µH 10%
	P36	7220447	Plug 5/5 pins			
PCB 15, 8002694 Display	TR1 TR30	8320615	51 BC 848B			
	D1- D79 D85- D97		246 LED reed 246 LED Green	DP1- DP5	8330131	HD 1075R/P 100PA
	P1	7220581	Plug 7/7 pins	P2	7220587	Plug 7/7 pins

Standard	Resis	stor	s:	
Resistors	SMD	2%	1/8	V
	SMD	5%	1/8	V

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011216	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226		5011254	5011266	5011728	
9.1	5011646	5011668		5011489	5011255	5011706	5011729	

(Glue dots, approx. 200, part no. 3181932).

Resistors 5% 1/2 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.2 1.5	5011406 5010727	5011000 5011001 5011002	5011013 5011014 5011015	5011028 5011030 5011031	5011044 5011045 5011046	5010313 5011058 5011059	5011069 5010421 5011071	5011083
1.8 2.2 2.7	5010857 5011335	5010787 5010708 5010803	5011016 5010815 5011018	5011033 5011034 5010055	5011047 5011048 5011049	5011061 5011062	5011072 5011074 5011075	
3.3 3.9 4.7	5020803 5010765	5010782	5011019 5011021 5011022	5011037 5010700 5010035	5011051 5010036	5011063 5011065	5010381 5010392 5011078	
5.6 6.8 8.2	5010874	5011011		5011042	5010810 5010038	5011067	5011079 5011080 5011081	

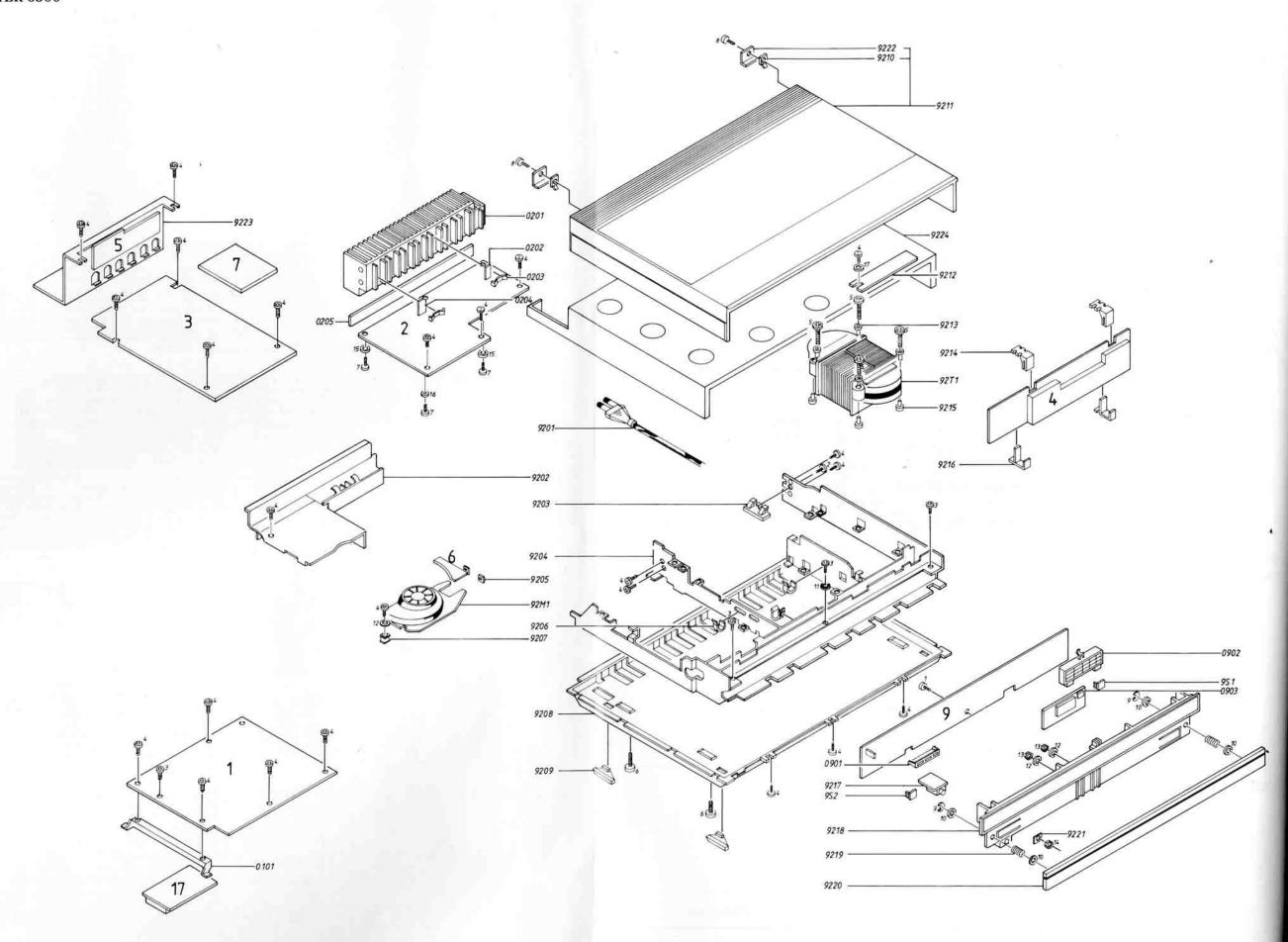
Resistors 5% 1/4 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5010592	5010506	5010065	5010040	5010059	5010049	5010054	5010638
1.2		5010595	5010128	5010153	5010046		5010665	
1.5	5011348	5010468	5010057	5010247	5010053	5010063	5010093	
1.8		5010822	5010362	5010066	5010135	5010072	5010791	
2.2	5010682	5010448	5010092	5010064	5010079	5010120	5010245	
2.7	5010925	5010403	5010000	5010298	5010141	5010083	5010431	
3.3		5010253	5010044	5010076	5010075	5010117	5010848	
3.9	5011377	5010622	5010070	5010069	5010060	5010073	5010714	
4.7	5010888	5010411	5010058	5010048	5010045	5010077	5011513	
5.6	5010706	5010151	5010067	5010041	5010061	5010071	5010658	
6.8	5010904	5010039	5010144	5010052	5010062	5010074		
8.2	5010880	5010056	5010068	5010154	5010091	5010505		

Resistors 5% 1/8 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.2 1.5		5011464 5011351 5011463	5011084	5010816 5011442 5011178	5010935 5011338 5011364	5011440 5011341 5011398	5011459 5011175 5011460	5020875
1.8 2.2 2.7	5011032	5011376 5011471		5011361 5011353 5011362	5011344 5010833 5011366	5011468 5011369 5011370	5011342 5011478	
3.3 3.9 4.7	5011363	5011438 5011038	5011337 5011817 5011441	5010827 5011157 5011363	5011346 5011457 5010937	5011371 5011372 5011343	5011462 5020876 5011611	
5.6 6.8 8.2		5011412 5011356 5011466		5010885 5010839 5011339	5011166 5011367 5011368	5011340 5011458 5011373	**	

BEOMASTER 6500



4-2

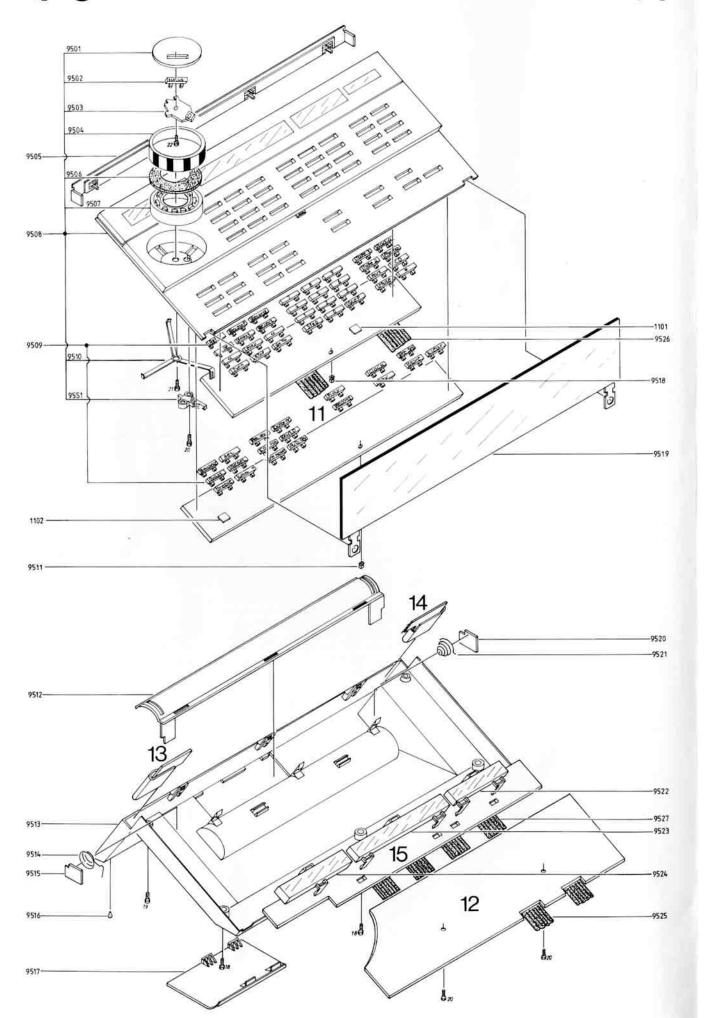
**x10M** 5011730

M	x10M
1459 1175 1460	5020875
1342 1478	
1462 0876 1611	

Builgasiaissi						
LIST OF MECHANICAL PARTS	01 modul 0101	8002671 8002818 8002908 2566047	PCB HF, type 2336, PCB HF, type 2338, PCB HF, type 2339 Rail			
	02 modul 0201 0202 0203 0204 0205	8002679 2568679 6141103 2819175 3170001 2560123	PCB Output and po Heatsink PC-Board Spring Mica sheet Rail	wer supply		
	03 modul	8001219 8001280	PCB Preamplifier PCB Relay			
	04 modul	8001218 8001290	Microcomputer PCB with IC 74HCT	21		
	05 modul	8001212 7210518 7210520 7210521 7210558 7210820	Socket panel Socket 8pol DIN Socket HT 3pol Socket HT 4pol Socket AM Socket FM			
	06 modul	8002173	PCB Fan regulation			
	09 modul 0901 0902 0903	8001284 3131252 3370155 3131260 3370156 8002683	PCB Display Housing, display Tape, display Housing, programme Tape, programme PC-Board	e		
	9S1- 9S2	7400268	Switch 1-pole			
	17 modul	8050093 8050102	Tuner FM Tuner FM, type 2339	)		
	9201	6271101 6270380	Mains cable, type 2336, 2337 Mains cable, type 2338	9212	8002778 8002814	PCB mount. fuse type 2336, 2337, 2340 PCB mount fuse,
		6271119 6270297	Mains cable, type 2339 Mains cable,	9213 9214	2938154 3152341	type 2338, 2339 Bushing Holder
	9202 9203 9204	3131211 3152367 3454609	type 2340 Housing for fan Cable holder Frame	9215 9216 9217	2938154 3014060 8002680	Bushing Holder PCB Headphones with plugs
	9205 9206 9207 9208	2938205 3152366 2938206 3454652	Bushing Cable holder Bushing Bottom	9218 9219 9220	3114316 2812095 2569178 2569202	Display Housing Spring Rail Rail, white
	9209 9210 9211	3035119 2391059 3414160 3430502	Rubber foot Locking plate Cabinet Cabinet, white	9221 9222 9223 9224	2640050 3034073 8001212 3114356	Locking plate Locking plate Socket panel Inner chassis

	92T1	8013354 8013362	Transformer, type 2336 Transformer, type 2337	
		8013363	Transformer, type 2338	
		8013364	Transformer, type 2339	
		8013365	Transformer, type 2340	
	92M1	8410011	Fan complete	
		6276079	Main cable bundel	
Survey of screws, washers etc.	1	2013118	Screw 3,0x8	
arrey of serems, musicers ever	2	2015094	Screw M3,5x6,5	
	3	2039008	Screw AM 3x6	
	4	2039020	Screw 3x5	
	5	2043003	Screw AM 4x25	
	6	2043020	Screw AM 4x6	
	7	2013089	Screw U2,9x7,9	
	8	2043011	Screw AM 4x8	
	9	2390001	Washer 2,3	
	10	2620020	Washer Ø3,2x7	
	11	2625002	Washer A3,2	
	12	2622015	Washer	
			Ø3,2x8x0,5	
	13	2380011	Nut M3	
	14	2380145	Nut	
	15	2622052	Washer Ø3,2x8x1	
	16	2622014	Washer Ø3,2x6x1	
	17	2622041	Washer 3,2	
Parts not shown				
		3397571	Foam packing set for Beomaster	

3917098	Insert for Beomaster
3391251	Outer carton for Beomaster
3501073	Users Guide, Beosystem 6500 DK
3501074	Users Guide, Beosystem 6500 S
3501075	Users Guide, Beosystem 6500 SF
3501076	Users Guide, Beosystem 6500 GB
3501077	Users Guide, Beosystem 6500 D
3501078	Users Guide, Beosystem 6500 NL
3501079	Users Guide, Beosystem 6500 F
3501080	Users Guide, Beosystem 6500 E
3501081	Users Guide, Beosystem 6500 I
3502716	Setting up Guide, Beomaster 6500 DK
3502717	Setting up Guide, Beomaster 6500 S
3502718	Setting up Guide, Beomaster 6500 SF
3502719	Setting up Guide, Beomaster 6500 GB
3502720	Setting up Guide, Beomaster 6500 D
3502721	Setting up Guide, Beomaster 6500 NL
3502722	Setting up Guide, Beomaster 6500 F
3502723	Setting up Guide, Beomaster 6500 E
3502724	Setting up Guide, Beomaster 6500 I
3502725	Setting up Guide, Beomaster 6500 USA
	3391251 3501073 3501074 3501075 3501076 3501077 3501078 3501080 3501081 3502716 3502717 3502718 3502720 3502722 3502722 3502723 3502723



Master Control Panel, Type 1551	11Modul 1101 1102	8002685 7500211 7500211	PCB Keyboard Contact spring Contact spring			
	12Modul	8002690	PCB Microcomput	er		
	13Modul	8002873	PCB IR - left			
	14Modul	8002874	PCB IR - right			
	15Modul	8002694	PCB, display			
	9501	2804068 2804066	Washer, volume Washer, volume	9514 9515	2818075 2805000	Spring Screen
			white	9516	3010007	Rubber foot
	9502	2776036	Buttons, status	9517	3164839	Battery cover
	9503	8002872	PC-Board with switch		3164772	Battery cover, white
		7400336	Switch	9518	2576050	Spacer
	9504	2804053	Wheel	9519	2569172	Cover
	9505	3322103	IR - window		2569203	Cover, white
	9506	2622405	Packing	9520	2805000	Screen
	9507	2900013	Ball bearing	9521	2818074	Spring
	9508	3168901	Panel complete	9522	3131253	Housing, display
	74 2004	3168808	Panel complete, white	9523	3131254	Housing, programme
	9509	2776081	Set of buttons	9524	3131255	Housing, volume
	9510	2854125	Arm	9525	6200062	Ribbon cable
	9511	2570050	Spacer	9526	6200133	Ribbon cable
	9512	2952015	Holder	9527	6200128	Ribbon cable
	9513	3454620 3454580	Bottom Bottom, white		8700015	Battery
	95S1	7400356	Switch			
Screws for MCP	18	2039027	Screw 3x6			
	19	2039084	Screw 3x8			
	20	2013118	Screw PT 3x8			
	21	2013080	Screw 2,9x9,5			
	22	2013099	Screw 2,9x6,5			
Parts not shown. MCP	: <del></del>	3391273	Outer carton for M			
		3397431	Foam packing set	for MCP		
		3391687	Insert for MCP	con nu		
		3501082	Setting up Guide, I			
		3501083	Setting up Guide, I			
		3501084	Setting up Guide, I			
		3501085 3501086	Setting up Guide, I			
		3501086	Setting up Guide, I Setting up Guide, I			
		3501087	Setting up Guide, !			
		3501088	Setting up Guide, I			
		3501089	Setting up Guide, !			
		5501050	Setting up Guide, i	1011		

TILBEHØR ACCESSORIES

STAND 6500, type 2095

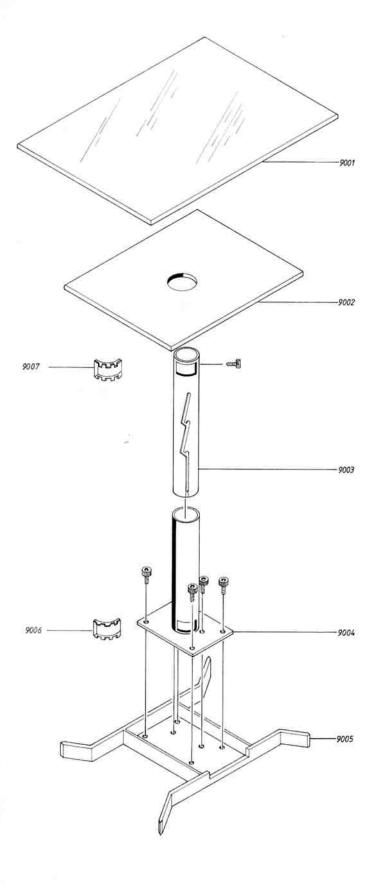
Parts not shown

Riaa modul 8001245

TR1	8320768	51 BC850B	TR4	8320769	51 BC849C
TR2	8320769	51 BC849C	TR5	8320755	51 BC847B
TR3	8320768	51 BC850B			
D1	8300482	217 4148			
C1	4010195	2,7nF 5% 50V	C8	4010220	100nF 10% 50V
C2	4010220	100nF 10% 50V	C9	4000319	150pF 5% 50V
C3	4000319	150pF 5% 50V	C10	4010167	2,7nF 10% 100V
C4	4010167	2,7nF 10% 100V	C11	4130220	10nF 5% 63V
C5	4130220	10nF 5% 63V	C12	4000286	470pF 5% 50V
C6	4000286	470pF 5% 50V	C13	4010173	4,7nF 10% 50V
C7	4010195	2,7nF 5% 50V	C14	4000290	22nF 10% 50V
P1	7220883	Plug 7pol.			
9001	3458744	Тор			
9002	3454672	Plate, bottom			
9003	2570073	Tube			
9004	2570074	Tube stand			
9005	3454671	Foot			
9006	2938275	Bushing			
9007	2938275	Bushing			
	3397709	Foam packing			
	3392135	Folie			

3390419 Screws

4-4



### ELEKTRISKE JUSTERINGER

Henvisningerne er for højre kanal. (Henvisningerne i parantes er for venstre kanal).

Alle betjeninger gøres på Master Control Panelet.

### **5V Netdel**

Tilslut DC voltmeter til 2P14-5. Juster til 5,1V±0,1V ved at afbryde eller kortslutte 2J38 og 2J43.

### Tomgangsstrøm

Tomgangsstrømmen justeres medens modtageren er kold og med neddrejet volumekontrol. Højttalere må ikke være tilsluttet. Tilslut DC voltmeter mellem 2TP200 og 2TP201 (2TP400 og 2TP401). Juster 2R226 (2R426) til 11mV.

### Brightness (Display)

Tilslut DC voltmeter over 9R15. Tryk AUX. Juster 9R12 til 3,75V.

### Strømforsyning (MCP)

Kortslut 12TP3 til stel. Tilslut et DC voltmeter til kollektor på 12TR37. Juster 12R117 til 4,75V.

### Volume sensor (MCP)

Tilslut DC voltmeter til ben 2 på 12IC2. Når volume hjulet drejes skal spændingen svinge minimum mellem 2V og 2,8V. Eventuel justering kan gøres ved at klippe eller lodde 12R23, 12R25 eller 12J57.

### ELECTRICAL ADJUSTMENTS

Instructions apply to the right channel. (Instructions given in brackets apply to the left channel). All operations are carried out from the Master Control Panel.

### 5V Power-supply unit

Connect DC voltmeter to 2P14-5. Adjust to  $5.1V\pm0.1V$  by disconnecting or short-circuiting 2J38 and 2J43.

### No-load current

Adjust the no-load current while the receiver is cold and with the volume control turned down. Speakers must not be connected.

Connect DC voltmeter between 2TP200 and 2TP201 (2TP400 and 2TP401).

Adjust 2R226 (2R426) to 11mV.

### Brightness (Display)

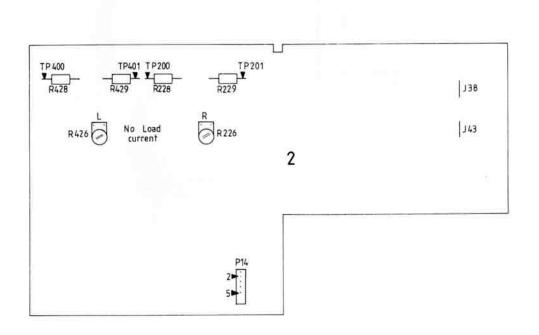
Connect DC voltmeter across 9R15. Press AUX. Adjust 9R12 to 3.75V.

### Power supply (MCP)

Short-circuit 12TP3 with chassis. Connect a DC voltmeter to the collector at 12TR37. Adjust 12R117 to 4.75V.

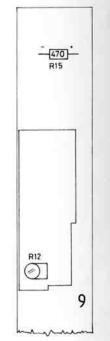
### Volume sensor (MCP)

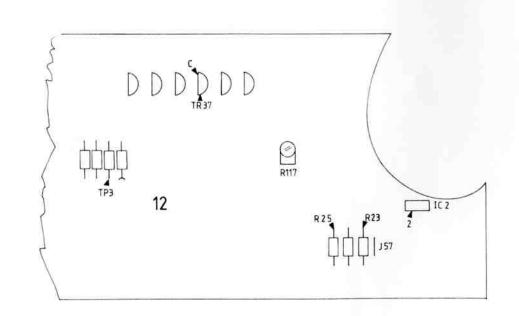
Connect DC voltmeter to pin 2 at 12IC2. When the volume wheel is turned, the voltage should oscillate between 2V and 2.8V as a minimum. Any adjustments which might be necessary may be performed by cutting or soldering 12R23, 12R25 or 12J57.



CH. SEP.

455 KHz TRAP





### ELEKTRISKE JUSTERINGER

parantes er for venstre kanal). Alle betjeninger gøres på Master Control Panelet.

### 5V Netdel

Tilslut DC voltmeter til 2P14-5. Juster til 5,1V±0,1V ved at afbryde eller kortslutte 2J38 og 2J43.

### Tomgangsstrøm

Tomgangsstrømmen justeres medens modtageren er kold og med neddrejet volumekontrol. Højttalere må ikke være tilsluttet. Tilslut DC voltmeter mellem 2TP200 og 2TP201 (2TP400 og 2TP401). Juster 2R226 (2R426) til 11mV.

### Brightness (Display)

Tilslut DC voltmeter over 9R15. Tryk AUX. Juster 9R12 til 3,75V.

### Strømforsyning (MCP)

Kortslut 12TP3 til stel. Tilslut et DC voltmeter til kollektor på 12TR37. Juster 12R117 til 4,75V.

### Volume sensor (MCP)

Tilslut DC voltmeter til ben 2 på 12IC2. Når volume hjulet drejes skal spændingen svinge minimum mellem 2V og 2,8V. Eventuel justering kan gøres ved at klippe eller lodde 12R23, 12R25 eller 12J57.

### ELECTRICAL ADJUSTMENTS

Henvisningerne er for højre kanal. (Henvisningerne i Instructions apply to the right channel. (Instructions given in brackets apply to the left channel). All operations are carried out from the Master Control Panel.

### 5V Power-supply unit

Connect DC voltmeter to 2P14-5. Adjust to  $5.1V \pm 0.1V$  by disconnecting or shortcircuiting 2J38 and 2J43.

### No-load current

Adjust the no-load current while the receiver is cold and with the volume control turned down. Speakers must not be connected. Connect DC voltmeter between 2TP200 and 2TP201 (2TP400 and 2TP401). Adjust 2R226 (2R426) to 11mV.

### Brightness (Display)

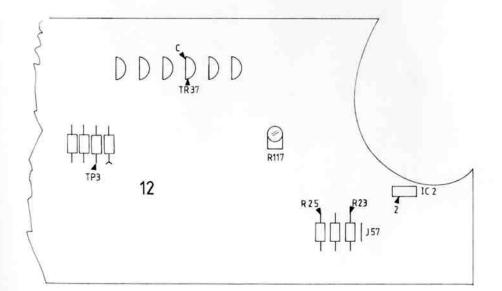
Connect DC voltmeter across 9R15. Press AUX. Adjust 9R12 to 3.75V.

### Power supply (MCP)

Short-circuit 12TP3 with chassis. Connect a DC voltmeter to the collector at 12TR37. Adjust 12R117 to 4.75V.

### Volume sensor (MCP)

Connect DC voltmeter to pin 2 at 12IC2. When the volume wheel is turned, the voltage should oscillate between 2V and 2.8V as a minimum. Any adjustments which might be necessary may be performed by cutting or soldering 12R23, 12R25 or 12J57.



## Bang & Olufsen

### HF JUSTERINGER

Ved visse justeringere skal AFT'en være in-aktiv. Dette ses ved at LOCKED indikaatoren skal være slukket (LOCKED off). Ved justeringer uden AFT skal signalgeneratoren først tilsluttes, når modtagerens frekvens er indstillet.

Alle betjeninger gøres på Master Control Panelet.

### Udskiftning på FM tuner

Ved udskiftning af FM tuner er det kun nøvendigt at justere MF spolen 17L7.

### MF

Tilslut et oscilloskop til 1IC2 ben 8. Tryk RADIO.

Tryk GO TO.

Tryk TURN til displayet viser 87.4.

Tilslut en sweepgenerator til antenneindgangen og indstil den til 87,4 MHz.

Juster 17L7 til maksimum og symmetrisk MF kurve.

TUNER JUSTERINGER (KUN HVIS TUNEREN ER MISJUSTERET)

### Oscillator

Der skal ikke tilføjes signal.

-Tilslut DC voltmeter mellem 17TP11 og ben 8 på tuneren.

Tryk RADIO.

Tryk GO TO.

Tryk TURN til displayet viser 87,4.

Juster 17L8 til 0V.

### HF 87,4 MHz

Tilslut et oscilloskop til 1IC2 ben 8.

Tryk RADIO.

Trvk GO TO.

Tryk TURN til displayet viser 87,4.

Tilslut en sweepgenerator til antenneindgangen og indstil den til 87,4 MHz.

Juster 17L2, 17L4, 17L5 og 17L7 til maksimum og symmetrisk MF kurve.

### HF 108 MHz

Tryk GO TO.

Tryk 1080.

Når displayet slukker, tryk GO TO (LOCKED off). Sweepgeneratorens frekvens ændres til 108 MHz. Juster 17R32, 17R33 og 17R34 til maksimum.

### Detektor

Tilslut oscilloskop til 1IC2 ben 8.

Tilslut DC voltmeter over 1R19 (1TP12 og 1TP13). Tryk RADIO.

Trvk GO TO.

Tryk TURN til displayet viser 87,4.

Trvk GO TO.

Trvk 940.

Når displayet slukker, tryk GO TO (LOCKED off).

### RF ADJUSTMENTS

The AFT needs to be inactive for certain adjustments. This is shown by the LOCKED indicator being off (LOCKED off). When adjustments are made without the AFT, the signal generator should not be connected until the frequency of the receiver has been set.

All operations are carried out from the Master Control Panel.

### Replacement of FM tuner

When replacing an FM tuner, it is only necessary to adjust the IF coil 17L7.

Connect an oscilloscope to 1IC2 pin 8.

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.4.

Connect a sweep generator to the aerial input and adjust it to 87.4 MHz.

Adjust 17L7 to maximum and symmetrical IF curve.

TUNER ADJUSTMENT (ONLY IF TUNER IS MALADJUSTED)

### Oscillator

Do not input a signal.

Connect DC voltmeter between 17TP11 and the

tuner's pin 8. Press RADIO.

Press GO TO.

Press TURN until the display shows 87.4.

Adjust 17L8 to 0V.

### RF 87.4 MHz

Connect an oscilloscope to 1IC2 pin 8.

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.4.

Connect a sweep generator to the aerial input and adjust it to 87.4MHz.

Adjust 17L2, 17L4, 17L5 and 17L7 to maximum and symmetrical IF curve.

### RF 108 MHz

Press GO TO.

Press 1080.

When the display goes off, press GO TO (LOCKED

Change sweep generator frequency to 108MHz. Adjust 17R32, 17R33 and 17R34 to maximum.

### Detector

Connect oscilloscope to 1IC2 pin 8.

Connect DC voltmeter across 1R19 (1TP12 and 1TP13).

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.4.

Press GO TO.

Press 940.

When the display goes off, press GO TO (LOCKED off).

Tilslut en målesender til antenneindgangen og indstil den til 94 MHz.

Finindstil målesenderens frekvens til minimum 2. harmonisk forvrængning af signalet, som vist på

Connect a signal generator to the aerial input and adjust it to 94MHz.

Fine-tune the signal generator to at least second harmonic distortion of the signal as indicated on the

RIGTIG



CORRECT

FORKERT



INCORRECT

Juster 1L2 så tæt mod 0V DC som muligt. NB! Spændingen over 1R19 vil hele tiden variere p.g.a. korrektionspulser fra mikrocomputeren. Efter detektor justering indstil FM DISPLAY INDIKERING se afsnit 8.

Adjust 1L2 as close to 0V DC as possible. NOTE! The voltage across 1R19 will vary continuously because of correction pulses from the microcomputer.

After adjustment of the detector, adjust the FM DISPLAY INDICATION, see section 8.

### FM LF output

Tilslut en målesender til antenneindgangen og indstil den til mono, 94MHz, 1mV EMF, △±75 kHz. Tilslut LF voltmeter til 1TP14 (1TP15).

Tryk RADIO. Trvk GO TO.

Tryk TURN til displayet viser 87,5.

Tryk GO TO.

Tryk 940.

Juster 1R204 (1R404) til 1V RMS. (Type 2333 justeres til 700mV RMS).

### Kanalseparation

Tilslut en stereokoder (Encoder) til antenneindgangen og indstil den til 94 MHz og umoduleret signal i den ene kanal.

Tilslut LF voltmeter til 1TP14 eller 1TP15 (den umodulerede kanal).

Tryk RADIO.

Trvk GO TO.

Tryk TURN til displayet vises 87,5.

Tryk GO TO.

Tryk 940.

Juster 1R51 til minimum signal i den umodulerede

Tilslut LF voltmeter til den anden kanal, og indstil stereokoderen til umoduleret signal i den samme

Kontroller, juster til symmetrisk kanalseparation.

### FM stop niveau

Tilslut en målesender til antenneindgangen, og indstil den til 94MHz, 20μV EMF, Δ±75 kHz. Tryk RADIO.

Trvk GO TO.

Tryk TURN til displayet visere 87,5.

Tryk GO TO.

Tryk 940.

Drej 1R25 mod uret til stop.

Drej 1R25 med uret til LOCKED indikatoren netop tænder.

### FM AF output

Connect a signal generator to the aerial input and adjust it to mono, 94MHz, 1mV EMF,  $\Delta \pm 75$ kHz. Connect AF voltmeter to 1TP14 (1TP15).

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Adjust 1R204 (1R404) to 1V R.M.S.(Adjust type 2333 to 700mV R.M.S.)

### Channel separation

Connect a stereo encoder to the aerial input and adjust it to 94MHz and unmodulated signal in one channel.

Connect AF voltmeter to 1TP14 or 1TP15 (the unmodulated channel).

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Adjust 1R51 to minimum signal in the unmodulated channel.

Connect AF voltmeter to the other channel, and adjust the stereo encoder to unmodulated signal in the same channel.

Check, adjust to symmetrical channel separation.

### FM stop level

Connect a signal generator to the aerial input, and adjust it to 94MHz, 20µV EMF,  $\triangle \pm 75$ kHz.

Press RADIO.

Press GO TO.

Press TURN until the display shows 87.5.

Press GO TO.

Press 940.

Turn 1R25 anticlockwise to stop.

Turn 1R25 clockwise until the LOCKED indicator

just goes on.

## Bang & Olufsen

### AM

For at undgå indvirkning fra ACC'en, anbefales det at kortslutte 1C62.

### LW oscillator

Der skal ikke tilføres signal. Tilslut DC voltmeter til 1TP16.

Tryk RADIO.

Tryk GO TO.

Tryk TURN til frekvensdisplayet viser 150.

Juster 1L9 til 2V±0,25V.

Tryk GO TO

Trvk 350.

Juster 1C56 til 25V±0,5V

Gentag evt. proceduren.

### MW oscillator

Der skal ikke tilføres signal.

Tilslut DC voltmeter til 1TP16.

Tryk RADIO.

Tryk GO TO.

Tryk TURN til frekvensdisplayet viser 150.

Tryk GO TO.

Tryk 520.

Juster 1L8 til 2V±0,25V.

Tryk GO TO.

Tryk 1610.

Juster 1C55 til 25V±0,5V.

Gentag evt. proceduren.

### AM MF

Tilslut en sweepgenerator til antenneindgangen, og indstil den til centerfrekvens 455 kHz △10 kHz.

Tilslut et oscilloskop til 1IC7 ben 13. Tryk RADIO.

Tryk GO TO.

Tryk TURN til frekvensdisplayet viser 150.

Tryk GO TO.

Tryk 1500.

Kortslut 1R98.

ANTENNEKREDSE

Juster 1L13 og 1L14 til maksimum og symmetrisk

Kortslutningen over 1R98 fjernes.

MW antennekredsene skal justeres først.

### MW

Tilslut en målesender til antenneindgangen, og indstil den til 1500 kHz, 30% modulation. Tilslut oscilloskop eller LF voltmeter til 1IC7 ben 13.

Tryk RADIO. Tryk GO TO.

Tryk TURN til frekvensdisplayet viser 150.

Tryk GO TO.

Tryk 1500.

Juster 1C83 til maksimum output.

Målesenderens frekvens ændres til 575 kHz.

Tryk GO TO.

Tryk 575 kHz.

Juster 1L12 til maksimum output.

Gentag evt. proceduren.

### AM

In order to avoid any kind of influence from the AGC, it is recommended that 1C62 be short-circuited.

### LW oscillator

Do not input a signal.

Connect DC voltmeter to 1TP16.

Press RADIO.

Press GO TO.

Press TURN until the frequency display shows 150.

Adjust 1L9 to  $2V \pm 0.25V$ .

Press GO TO.

Press 350.

Adjust 1C56 to 25V  $\pm$  0.5V.

Repeat this procedure if necessary.

### MW oscillator

Do not input a signal.

Connect DC voltmeter to 1TP16.

Press RADIO.

Press GO TO.

Press TURN until the frequency display shows 150.

Press GO TO.

Press 520. Adjust 1L8 to  $2V \pm 0.25V$ .

Press GO TO.

Press 1610.

Adjust 1C55 to  $25V \pm 0.5V$ . Repeat this procedure if necessary.

### AM IF

Connect a sweep generator to the aerial input, and adjust it to centre frequency, 455 kHz △ 10 kHz.

Connect an oscilloscope to 1IC7 pin 13.

Press RADIO.

Press GO TO. Press TURN until the frequency display shows 150.

Press GO TO.

Press 1500.

Short-circuit 1R98.

AERIAL CIRCUITS

Adjust 1L13 and 1L14 to maximum and symme-

trical IF curve.

Remove the short-circuit across 1R98.

### The MW aerial circuits must be adjusted first.

MW Connect a signal generator to the aerial input, and

adjust it to 1500 kHz, 30% modulation. Connect oscilloscope or AF voltmeter to 1IC7 pin 13.

Press RADIO.

Press GO TO. Press TURN until the frequency display shows 150.

Press GO TO. Press 1500.

Adjust 1C83 to maximum output.

Signal generator frequency is changed to 575 kHz.

Press GO TO.

Press 575 kHz.

Adjust 1L12 to maximum output.

Repeat this procedure if necessary.

### LW

Målesenderens freksens ændres til 330 kHz. Tryk GO TO. Tryk 330. Juster 1C81 til maksimum output. Målesenderens frekvens ændres til 160 kHz. Tryk GO TO. Tryk 160. Juster 1L11 til maksimum output. Gentag evt. proceduren.

### AM stop niveau

Kortslutninger over 1C62 fjernes.
Tilslut en målesender til antenneindgangen, og indstil den til 1MHz 30% modulation, og 30 µV.
Tilslut DC voltmeter til kollektor på 1TR5.
Tryk RADIO.
Tryk GO TO.
Tryk TURN til frekvensdisplayet viser 150.
Tryk GO TO.
Tryk 1000.
Juster 1R73 til 2,5 V.

### LW

The signal generator frequency is changed to 330 kHz.

Press GO TO.

Press 330.

Adjust 1C81 to maximum output.

Change the signal generator frequency to 160 kHz.

Press GO TO.

Press 160.

Adjust 1L11 to maximum output.

Repeat this procedure if necessary.

Remove the short-circuit across 1C62.

### AM stop level

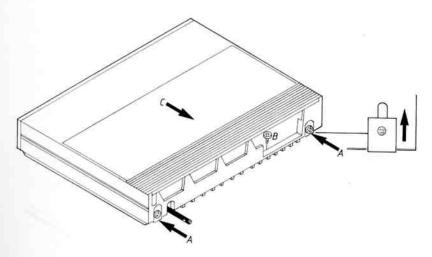
Adjust 1R73 to 2.5V.

adjust it to 1MHz 30% modulation, and 30µV. Connect DC voltmeter to the collector at 1TR5. Press RADIO. Press GO TO. Press TURN until the frequency display shows 150. Press GO TO. Press 1000.

Connect a signal generator to the aerial input, and

## Bang & Olufsen

### Dismantling



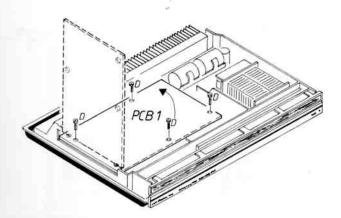
### Kabinet

Adskillelse

- Løsn skruerne, skub op og stram.
- Løft kølegitteret og fjern skruen i stikmodulet.
- Pres kabinettet ca. 1 cm bagud og løft op.

### Cabinet

- Loosen the screws, push up and tighten.
- Lift the heat dissipation grill and remove the screw from the socket module.
- Push the cabinet approx. 1 cm backwards and lift it out.



### PCB1

- Fjern skruerne D (4 stk.).
- Placer PCB1 i servicestilling som vist.

### PCB 1

- Remove the screws D (4 pcs.).
- Place PCB1 in service position as shown.